REVISION HISTORY

AZ2G CHASSIS

SEGMENT.: P-2

PART NO. : 9-888-127-01

MODEL

KDL-22CX520
KDL-32CX520
KDL-32CX523
KDL-40CX520
KDL-40CX523
KDL-46CX520
KDL-46CX523

NO	SUFFIX	DATE	SUPP/CORR	DESCRIPTION
1	-01	2011/1	--	1st Issue

Self Diagnosis Supported model

SERVICE MANUAL

AZ2G CHASSIS

SEGMENT.: P-2

MODEL	COMMANDER	DEST
KDL-22CX520	RM-GD020	Hong Kong
KDL-32CX520	RM-GD020, RM-CD013 (Taiwan)	Hong Kong, SOGUL, Singapore, Indonesia, Vetnam, Phillipines, India, Thailand, Malaysia, South Africa, Australia, New Zealand, Taiwan, Iran, Pakistan
KDL-32CX523	RM-GD020	SOGUL, Saudi Arabia, Nigeria
KDL-40CX520	RM-GD020, RM-CD013 (Taiwan)	Hong Kong, SOGUL, Singapore, Vetnam, Phillipines, India, Thailand, Malaysia, South Africa, Australia, New Zealand, Taiwan, Pakistan
KDL-40CX523	RM-GD020	SOGUL, Saudi Arabia, Nigeria
KDL-46CX520	RM-GD020	SOGUL, Singapore, Indonesia, Vetnam, Phillipines, India, Thailand, Malaysia, South Africa, Iran,Pakistan
KDL-46CX523	RM-GD020	SOGUL, Saudi Arabia, Nigeria

LCD COLOR TV

SONY®

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SECTION 1
SAFETY NOTES

1-1. Caution Handling of LCD Panel

When repairing the LCD Panel, make sure you are grounded with a wrist band.
When repairing the LCD Panel on the wall, the panel must be secured using the 4 mounting holes on the rear cover.

1) Do not press the panel or frame edge to avoid the risk of electric shock.
2) Do not scratch or press on the panel with any sharp objects.
3) Do not leave the module in high temperature or in areas of high humidity for an extended period of time.
4) Do not expose the LCD panel to direct sunlight.
5) Avoid contact with water. It may cause short circuit within the module.
6) Disconnect the AC power when replacing the backlight (CCFL) or inverter circuit. (High voltage occurs at the inverter circuit at 650Vrms)
7) Always clean the LCD panel with a soft cloth material.
8) Use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short circuit.
9) Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).
10) During the repair, DO NOT leave the Power On or Burn-in period for more than 1 hour while the TV is face down on a cloth.

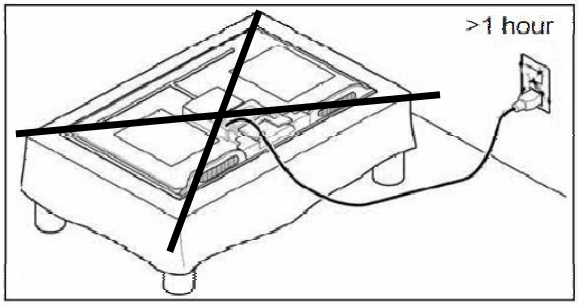


Figure 1. TV is face down on a cloth during reparing

1-2. Safety Check-Out

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:-

1) Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2) Check the interboard wiring to ensure that no wires are pinched or contact high-wattage resistors.
3)Check all control knobs, shields, covers, ground straps and mounting hardware have been replaced. Be absolutely certain you have replaced all the insulators.
4) Look for unauthorized replacement parts, particularly transistors that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5) Look for parts which, though functioning show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6) Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7) Check the antenna terminals, metal trim, metallized knobs, screws and all other exposed metal parts for AC leakage. Check leakage test as described next.
8. For safety reasons, repairing the Power board and/or Inverter board is prohibited.

1-3. Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis must not exceed 0.5mA (500 microamperes).
Leakage current can be measured by any one of the three methods:-

1. A commercial leakage tester such as the SIMPSON 229 or RCA WT-540A. Follow the manufacturers instructions to use those instructions.
2. A battery-operated AC milliampmeter. The DATA PRECISION 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery operated AC voltmeter. The 'limit' indication is 0.75V so analog meters must have an accurate low voltage scale. The SIMPSON'S 250 and SANWA SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 VAC range are suitable. (see Figure 1.)

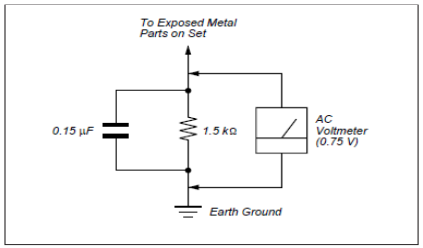


Figure 2. AC voltmeter to check AC leakage

1-4. How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground.

If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

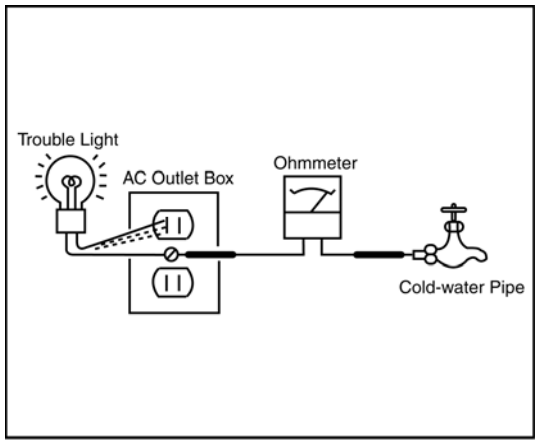


Figure 3. Checking for earth ground.

1-5. Warnings and Caution

a) These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

b) An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

c) Be sure to follow these guidelines to protect your property and avoid causing serious injury.
- Carry the TV with an adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damages.

d) Components identified by shading and ! mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

1-6. Lead Free Information

The circuit boards used in these models have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation.

Figure 2: LF Logo

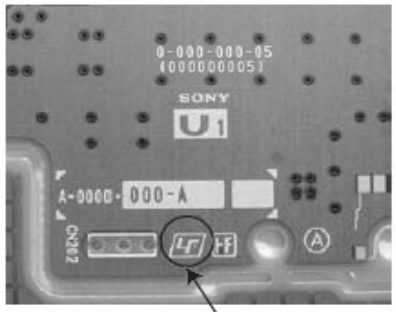


Figure 3: LF logo on circuit board

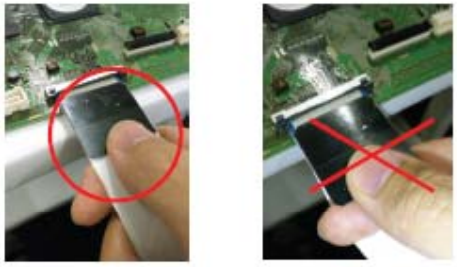
The servicing of these boards requires special precautions. It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers:-

Part Number	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

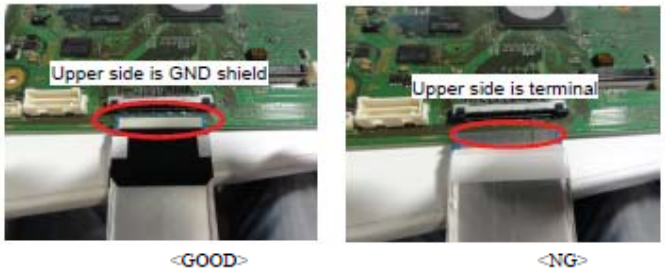
Due to high melting point of Lead Free Solder, the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.
For more information on the use of Lead Free Solder, please refer to **http://www.sony-training.com**

1-7. Handling the FLEXIBLE FLAT CABLE (FFC)

- When you insert / pull out FFC, please grasp a reinforcement board and main body of FFC.

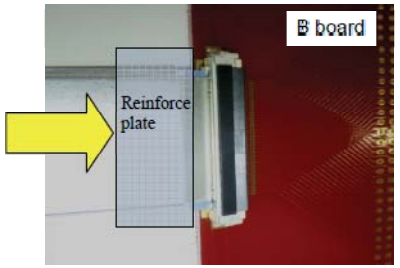


- FFC can reverse insertion to connector of B board.
- If reverse insertion FFC, all pins short-circuit, and board is broken.



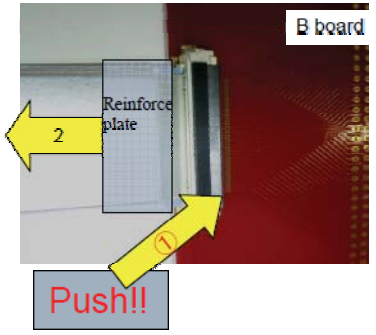
< Insertion>

Please hold reinforcement board and plunge it to the depths.



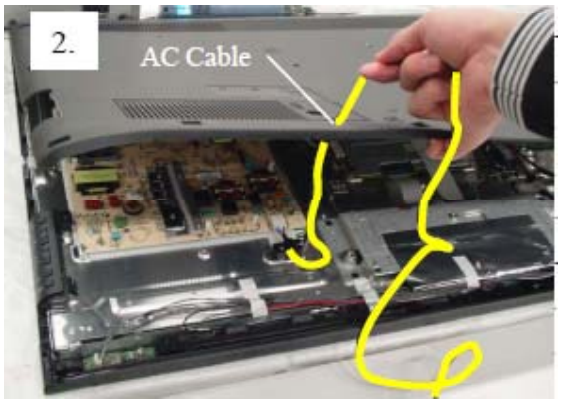
<Pull out>

Please pull out FFC while pushing the button of both ends at the same time.

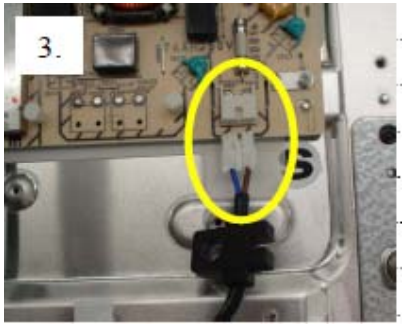


1-8. How to release COVER AC (Service and repair information)

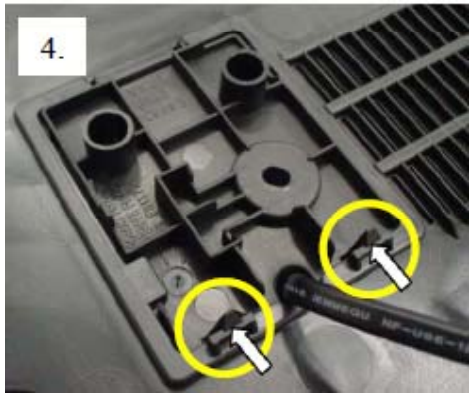
1. Remove screw for Rear Cover and “COVER AC”.
(Refer Section 6 for screw information).



2. Open Rear Cover with “COVER AC” and AC cable are attached.
→Make sure to hold cable not to give any tension to connector and scratch damage for cable.



3. Release AC cable connector.

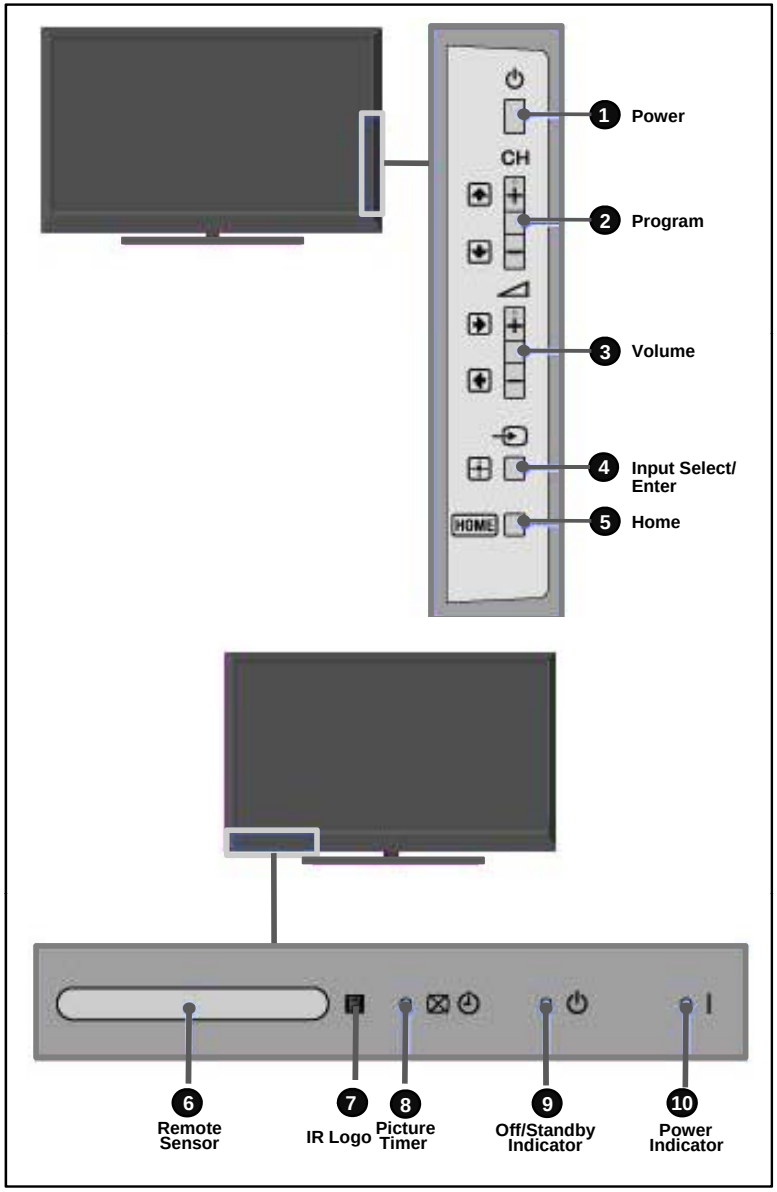


4. Release hook of “COVER AC” and remove it.

Note:
- **Take care not to cut your hand when release hook, especially metal Rear Cover.**
- **Confirm if the hook broken before reuse COVER AC.**
- **In case hook broken is occurred, replace with new one.**

SECTION 2
SELF DIAGNOSTIC FUNCTION

2-1. Overview of Control Buttons



2-2 LED Display Specification

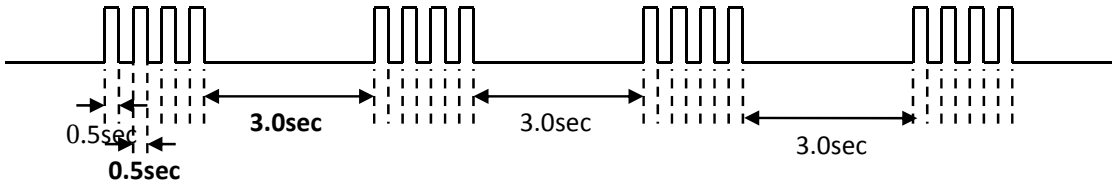
LED Type	Description	Remark
POWER	GREEN:LED RED: LED	Green Lights at Power On Red Lights when recording (only applicable in Japan and Europe models)
STANDBY	RED: One LED	Red Lights during standby
TIMER/PIC OFF	ORANGE/GREEN: Two LEDs	Orange Lights during Timer activation and Green Lights during Picture Off.

2-3. LED Display Control

Status	Picture Off/ Connecting/Tim	Standby LED	Power /REC	Blinking Pattern
Power Off (by power button or AC off)	Off	Off	Off	
Power On	Off	Off	GREEN	
Standby (by remote control off only)	Off	RED Lit	Off	
Self Diagnosis	Off	RED Blink	Off	Refer to Blinking pattern of Self Diagnosis mode
Aging mode	Off	Off	GREEN Blink	Blinking:0.5sec On / 0.5sec Off
End of Aging mode	Off	Off	GREEN Blink	Blinking:3sec On / 3sec Off
Software Updating	ORANGE Blink	RED Lit	Off	Blinking:5sec On / 1sec Off
Software Updating finish	ORANGE Lit	Off	GREEN Lit	
Test Reset finish	ORANGE Lit	Red	GREEN Lit	
Error of panel ID	ORANGE Blink	Off	GREEN Blink	Blinking:0.5sec On / 0.5sec Off
[REC][Sleep Timer][Power ON]	ORANGE	Off	RED	
[Picture Off][On Timer][REC][Power ON]	GREEN	Off	RED	

2-4. LED Pattern

When safety shutdown occurs, Standby LED display reports the cause by using the lightning patterns as indicated below.



Example: The figure above shows LED display when SHUTDOWN is caused by Balancer Error. It repeats flashing for a specified number of times in 0.5sec/cycle and has a 3 seconds interval of lighting off. Please note that a 3 seconds interval of lighting off is fixed regardless of abnormal state types.

2-5. Standby LED Error Display.

Blinking Times	Error	Countermeasure to replaced either/all
2	Main Power Error	● Power Supply Board (G**) ● Main Board (B**)
3	Main Board/ DC Alert Error/ Audio Error	● Main Board (B**)
4	Balancer Error/ MM SPI Error/ VLED Error	● Not applicable for this model
5	T Con Error/ HFR Error/ FRC Error	● Not applicable for this model
	Panel ID NVM Error	● TCon ● Panel Module
6	Backlight Error	● Power Supply Board (G**) ● Main Board (B**) ● Panel Module
7	Temperature Error	● Main Board (B**)
8	Software Error	● Main Board (B**)
		● Wifi (Not applicable for this model)
. 10	EmItter Error (3D models)	● Not applicable for this model

Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

2-6. Triage Chart

Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences								Green LED Blinking	No Power	Video - missing or distorted			Remote	Network	Audio
	2	3	4	5	6	7	8	10	Green LED non-stop Blinking	No Green Power LED (Dead Set)	Stationary colored lines or dots	No video One of Inputs	No video all Inputs	No Remote	Wireless can't connect	No Audio
B* BOARD	▲	●	▲	▲	▲	●	●		▲	▲	▲	●	●	▲	▲	●
G* BOARD	●	▲	▲	▲	●				▲	●						▲
H* BOARD（IR）				▲				●						●		
RF Module（RF）														●		
SPEAKER		▲														●
Skype Module																
Wifi Module							●								●	
LD* BOARD			●		▲											
LVDS CABLE			▲	▲							▲		▲			
TCON				●				▲								
LCD Panel			●		●	▲			●		●					
Problem	POWER	POWER	POWER	PANEL (TCON)	PANEL (Backlight)	TEMP	Software	EMIT-TER								
		AUDIO				FAN (N/A)										

● : Most likely defective part.

▲ : Secondary possible defective part.

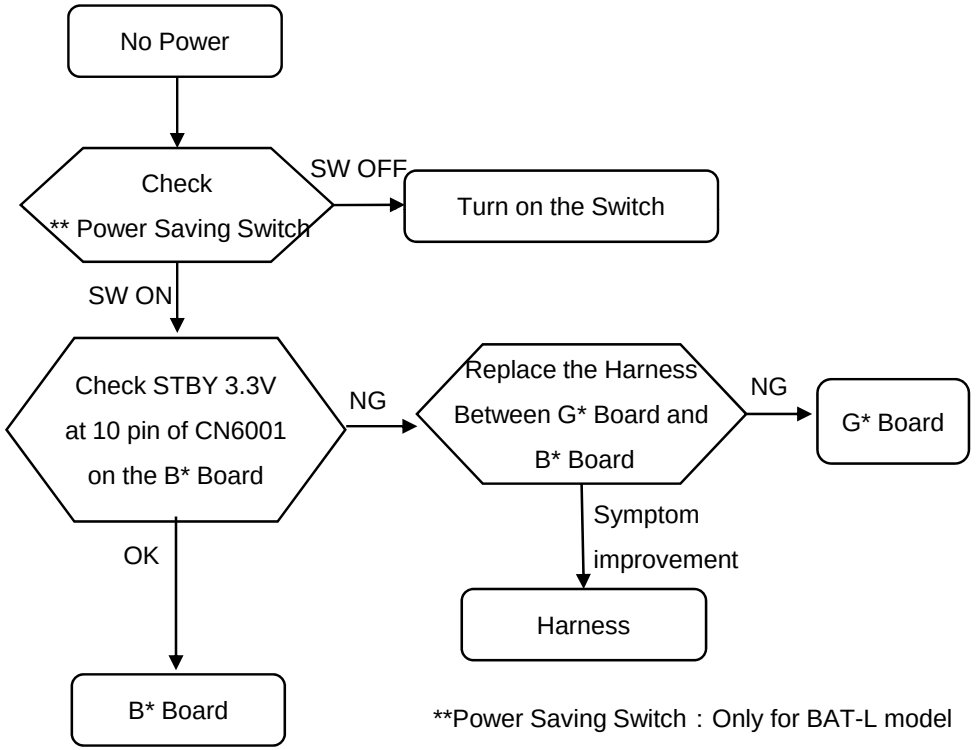
■ : Not Applicable for this model.

Segment	Size	B* Board Type	G* Board Type	H* Board Type
P-2	22	BAT-S	GD1	HLR
P-2	32	BAT-V	G2A	HLR
P-2	40	BAT-V	G2B	HLR
P-2	46	BAT-V	G3	HLR

LD* Board not use for this model.

SECTION 3
TROUBLESHOOTING

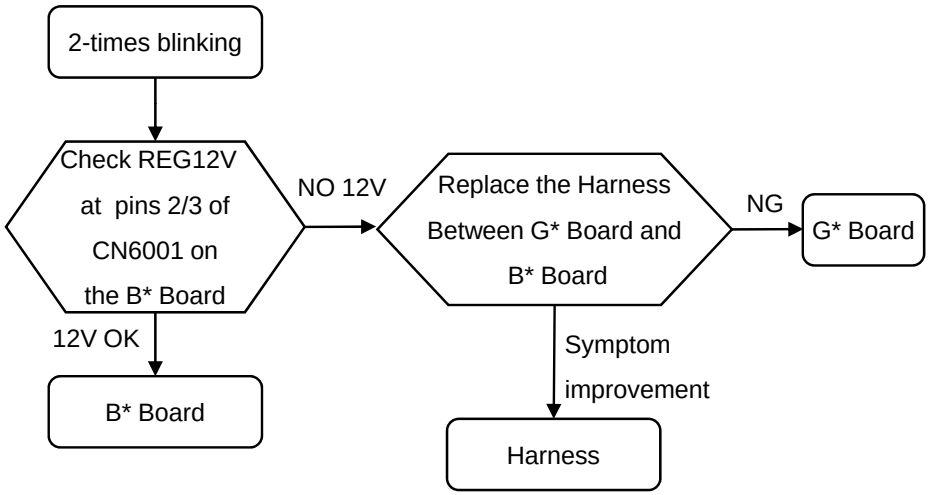
3-1. Power Problem



**Power Saving Switch：Only for BAT-L model

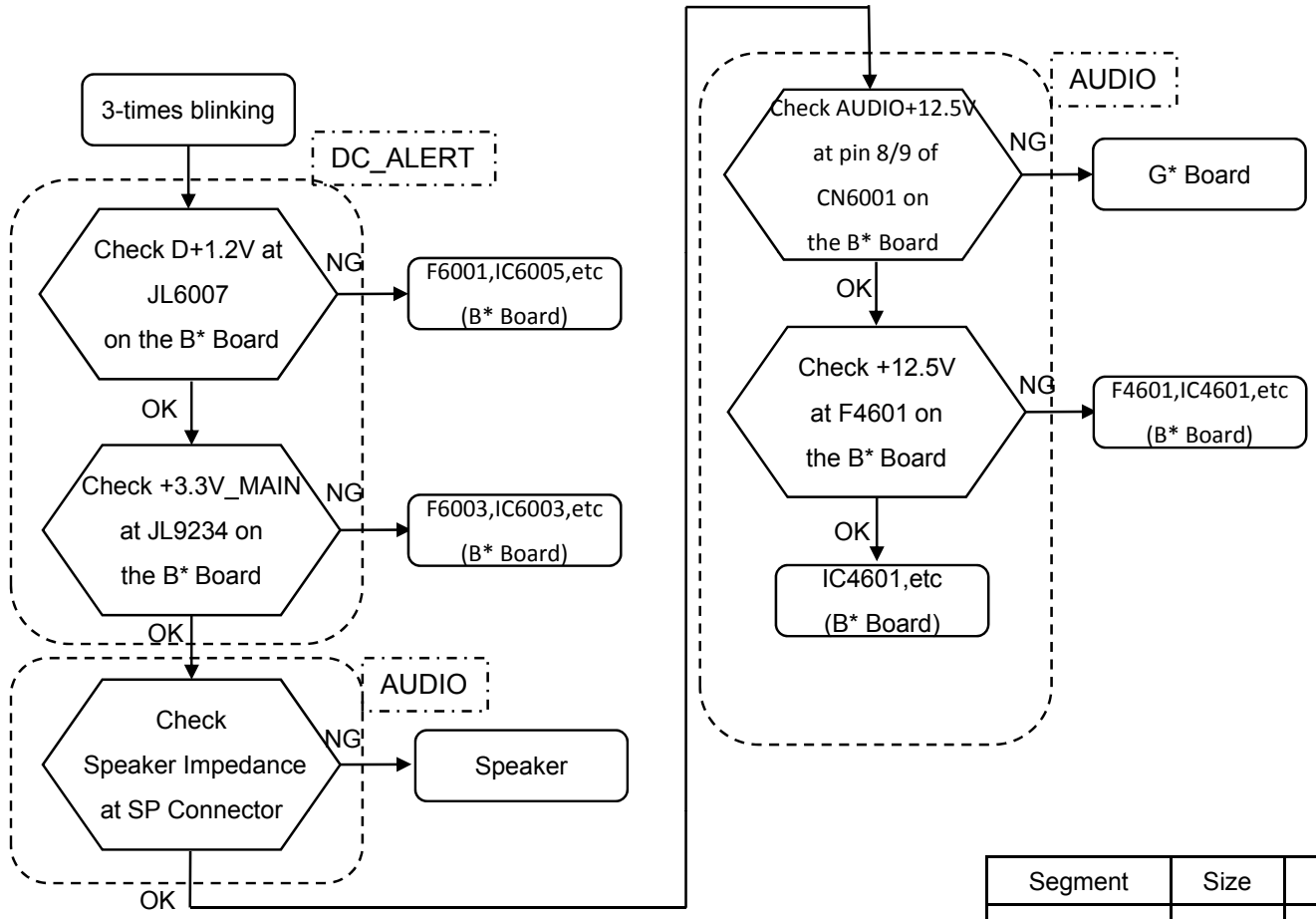
3-2. Standby Led Blinking

3-2-1. 2-times blinking (Main Power Error)



Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

3-2-2. 3-times blinking(DC Alert & Audio Error)

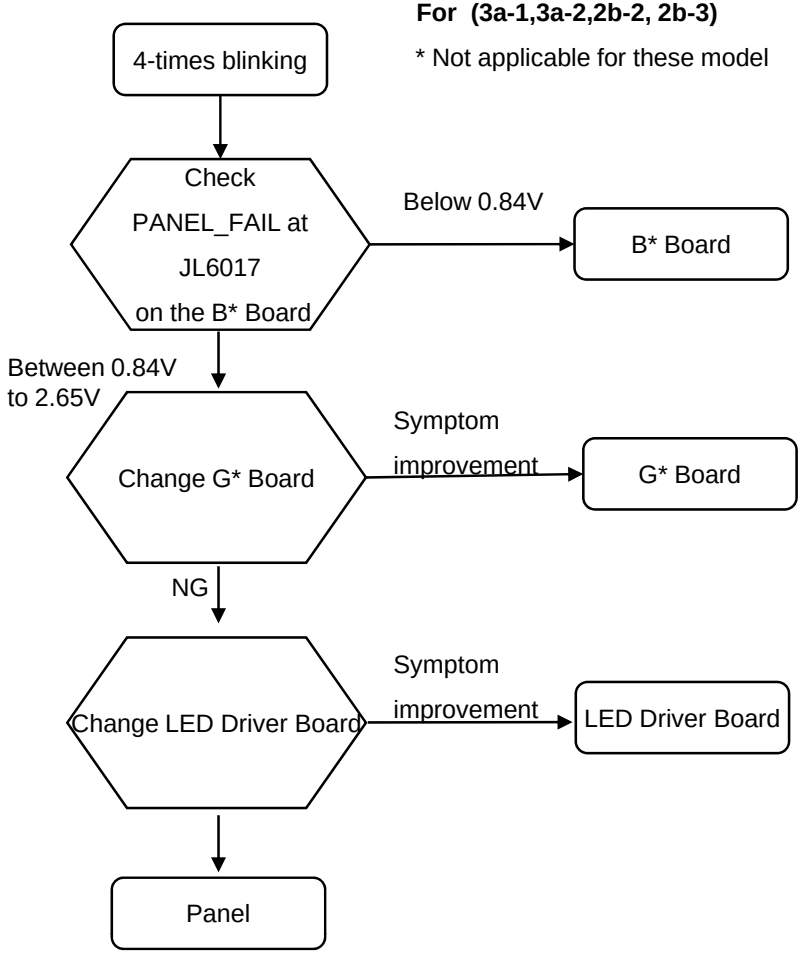


Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

3-2-3. 4-times blinking (Balancer Error)

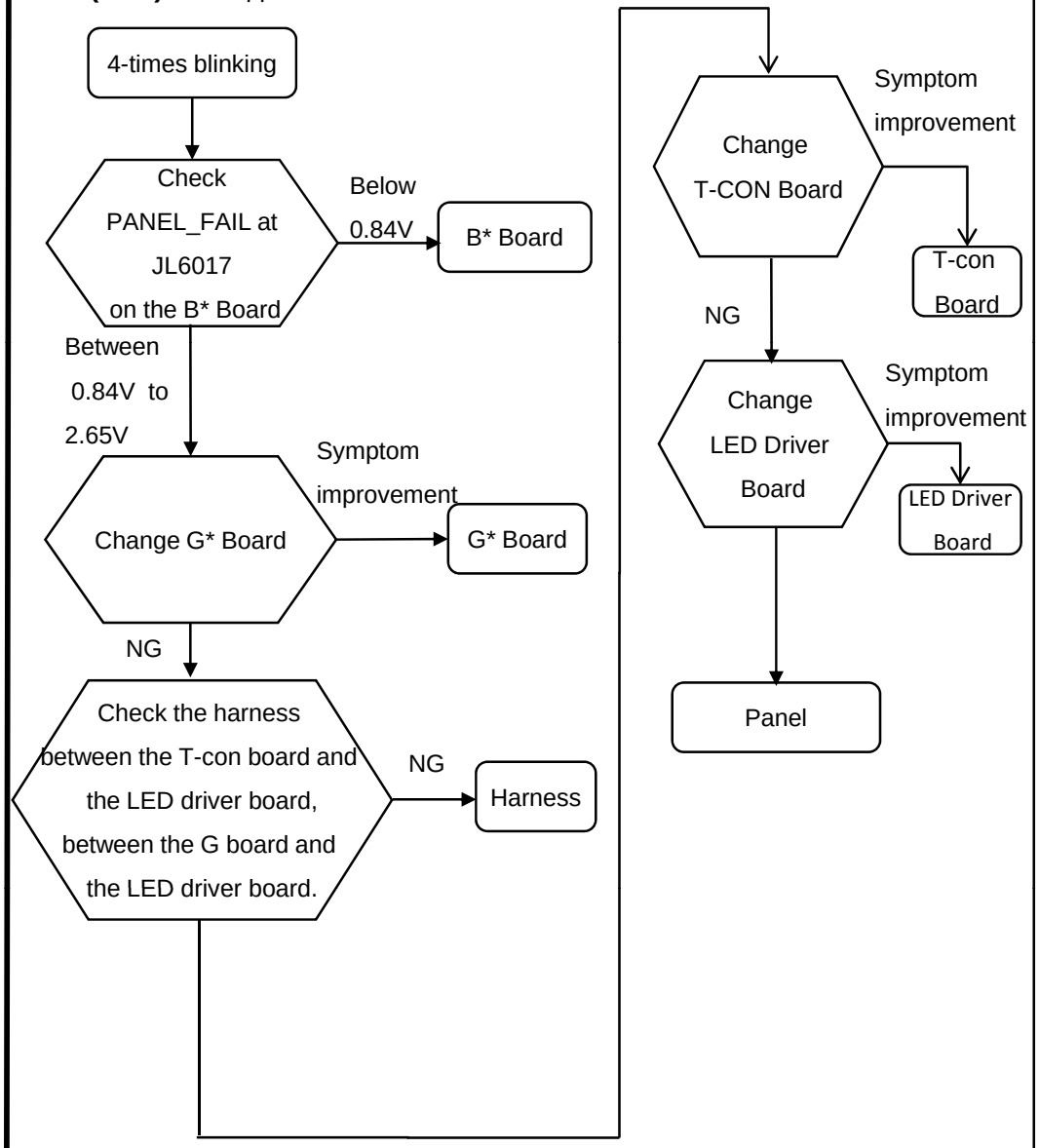
For (3a-1,3a-2,2b-2, 2b-3)

* Not applicable for these model



3-2-4. 4-times blinking (Including SPI Error)

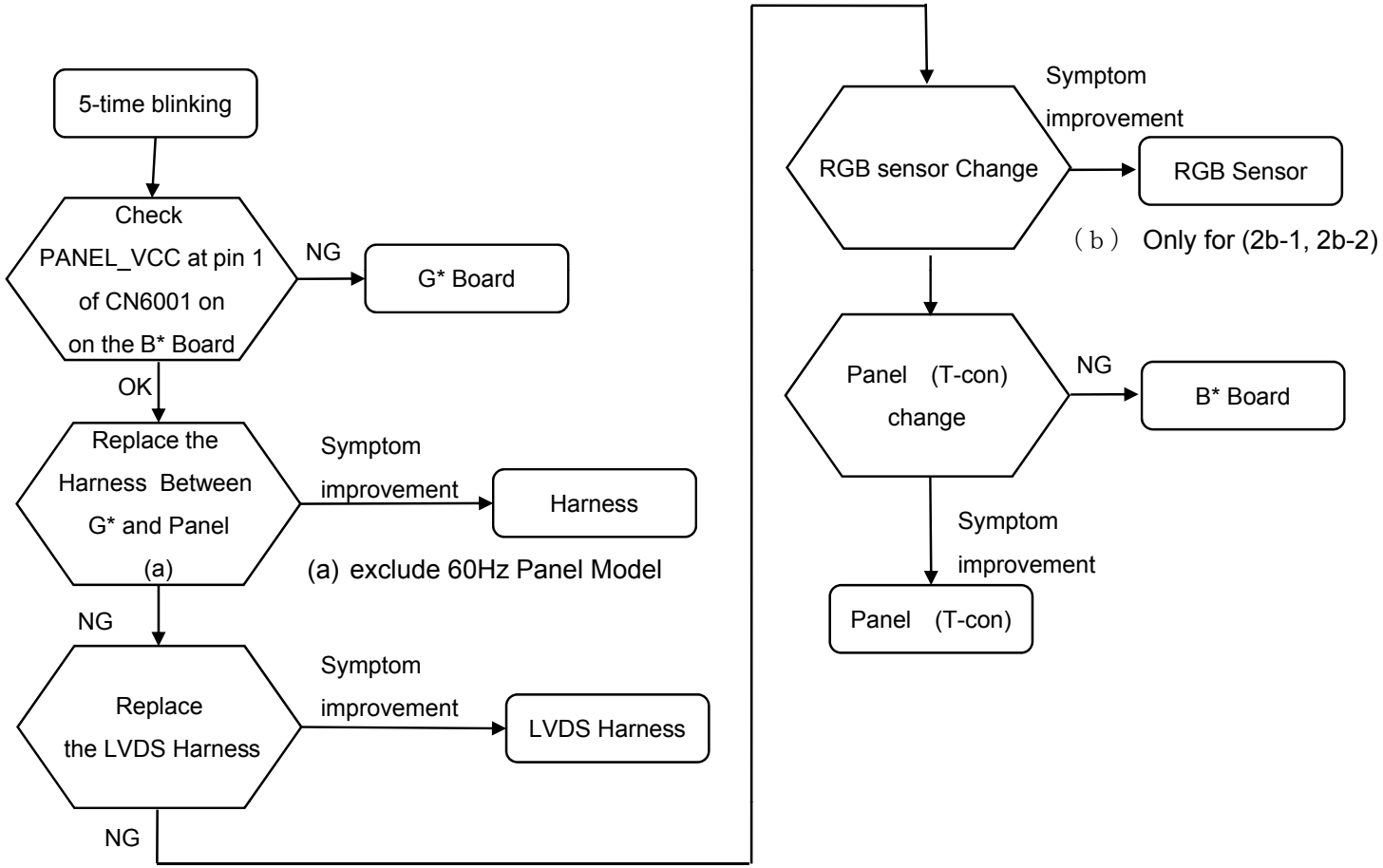
For (2b-1) * Not applicable for these model



3-2-5. 5-times blinking (T-con Error)

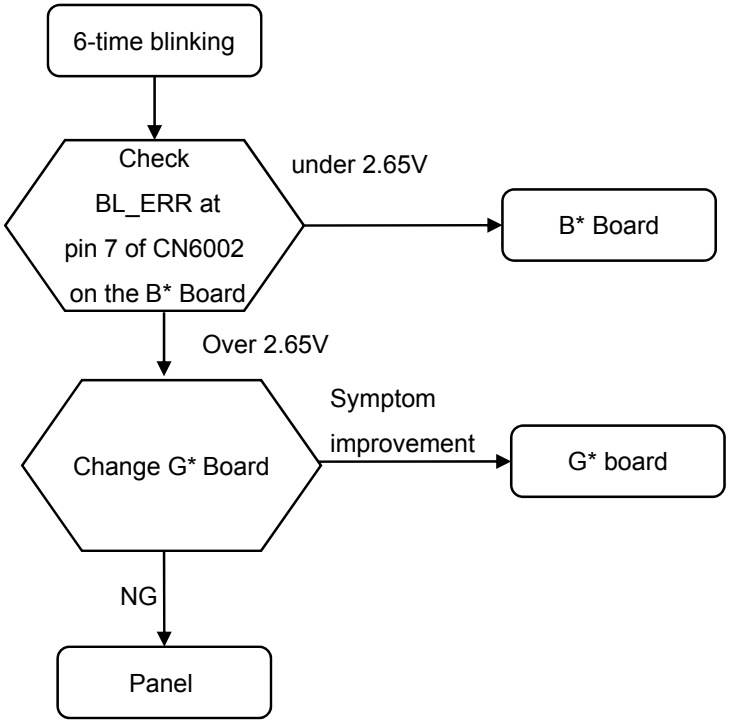
For (3a-1, 3a-2, 2b-1, 2b-2)

* Not applicable for these model



3-2-6. 6-times blinking (Backlight Error)

For (P-1, P-2)

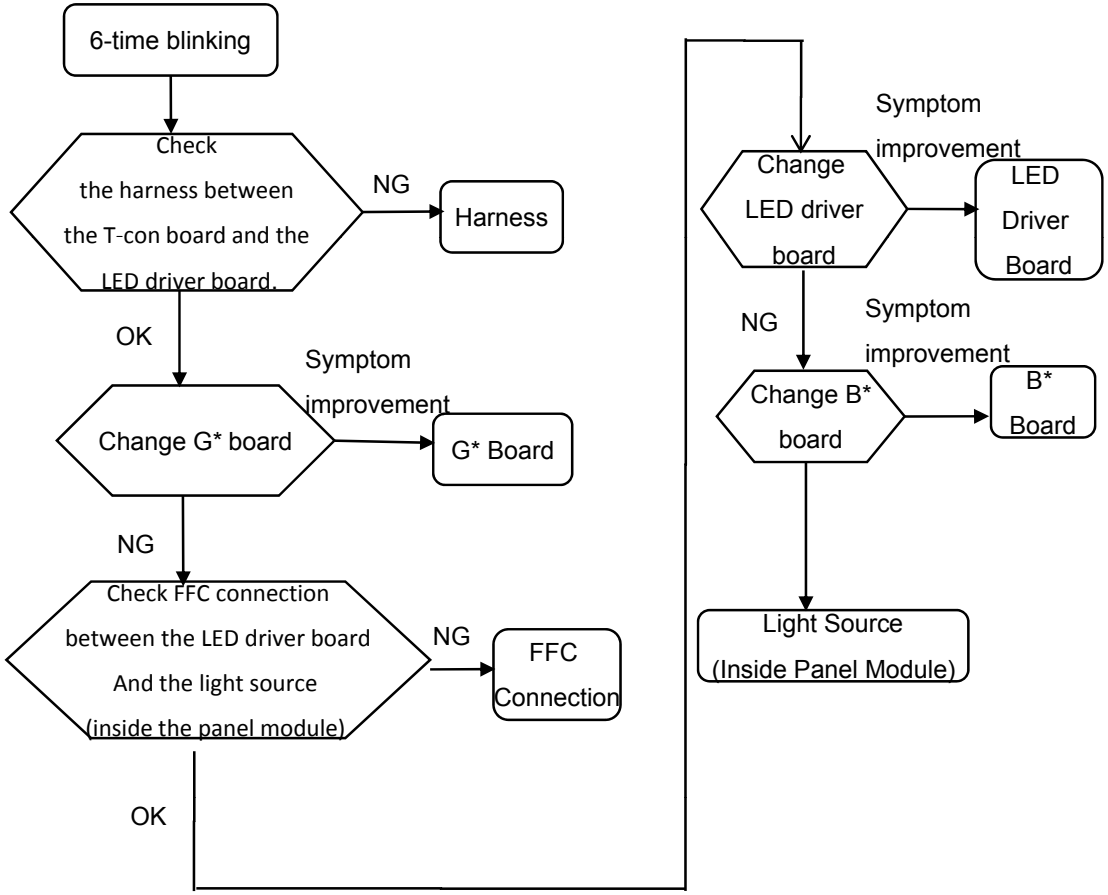


Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

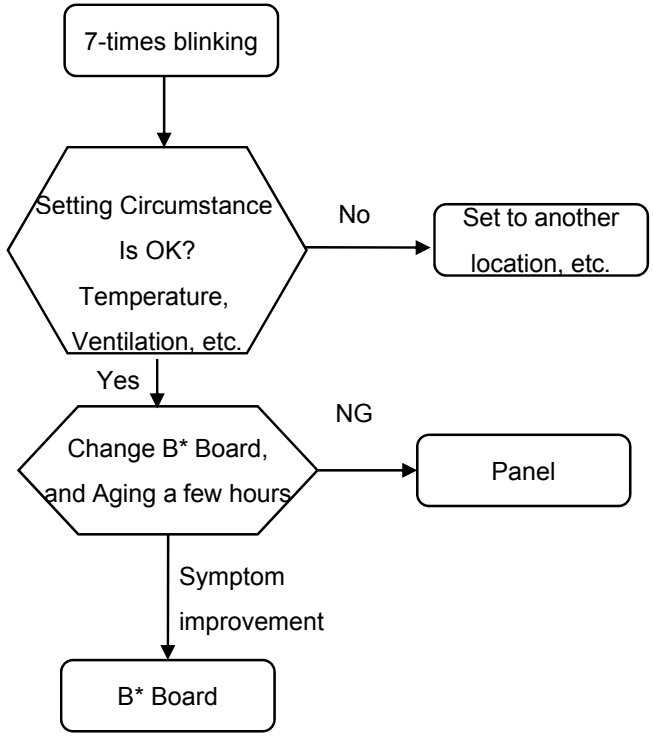
3-2-7. 6-times blinking (Backlight Error)

For (3a-1, 3a-2, 2b-1, 2b-2)

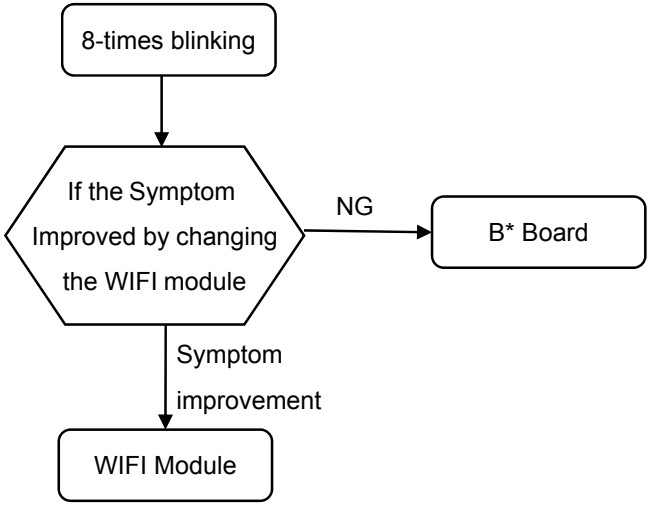
* Not applicable for these model



3-2-8. 7-times blinking (Temperature Error)



3-2-9. 8-times blinking (Software Error)

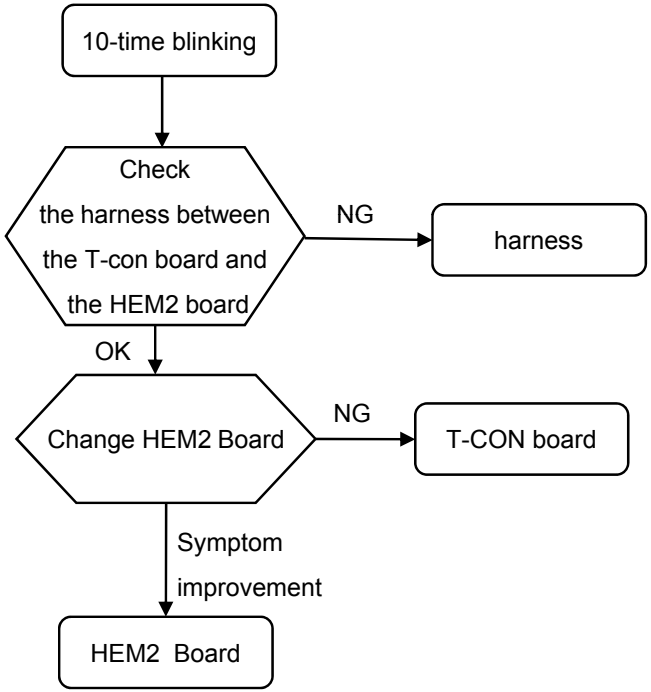


Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

3-2-10. 10-times blinking (Emitter error) (3D) Models only

For (3a-1, 3a-2, 2b-1, 2b-2)

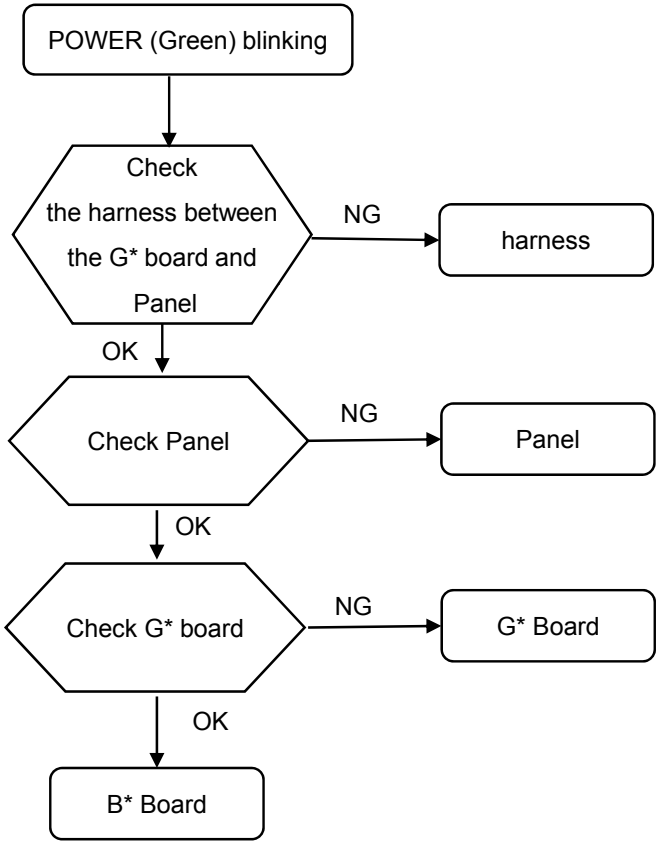
* Not applicable for these model



3-3. POWER（Green) LED BLINKING

3-3-1. Non-Stop blinking

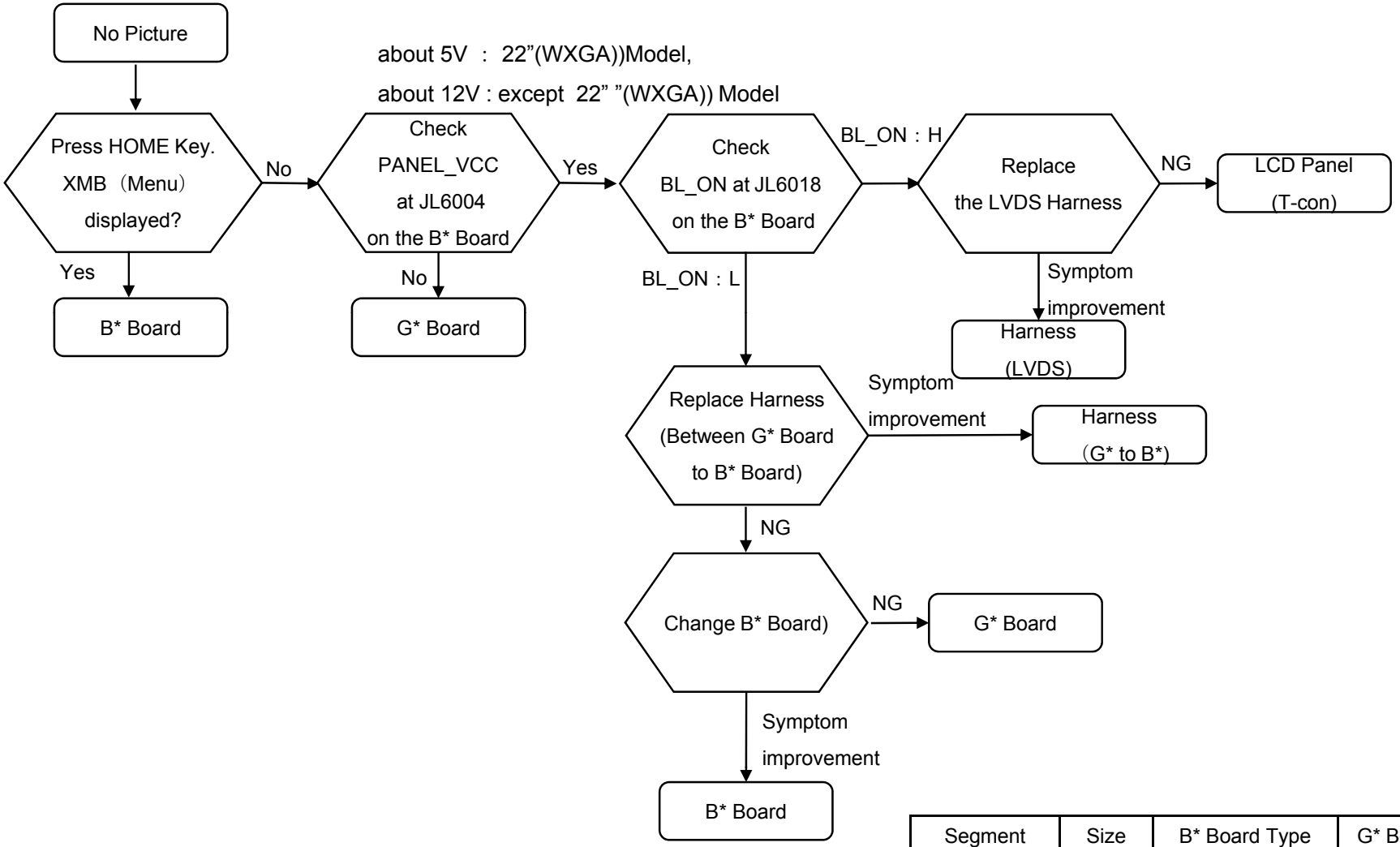
For (P-1, P-2)



Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

3-4. NO PICTURE

3-4-1. (Except HFR Model)

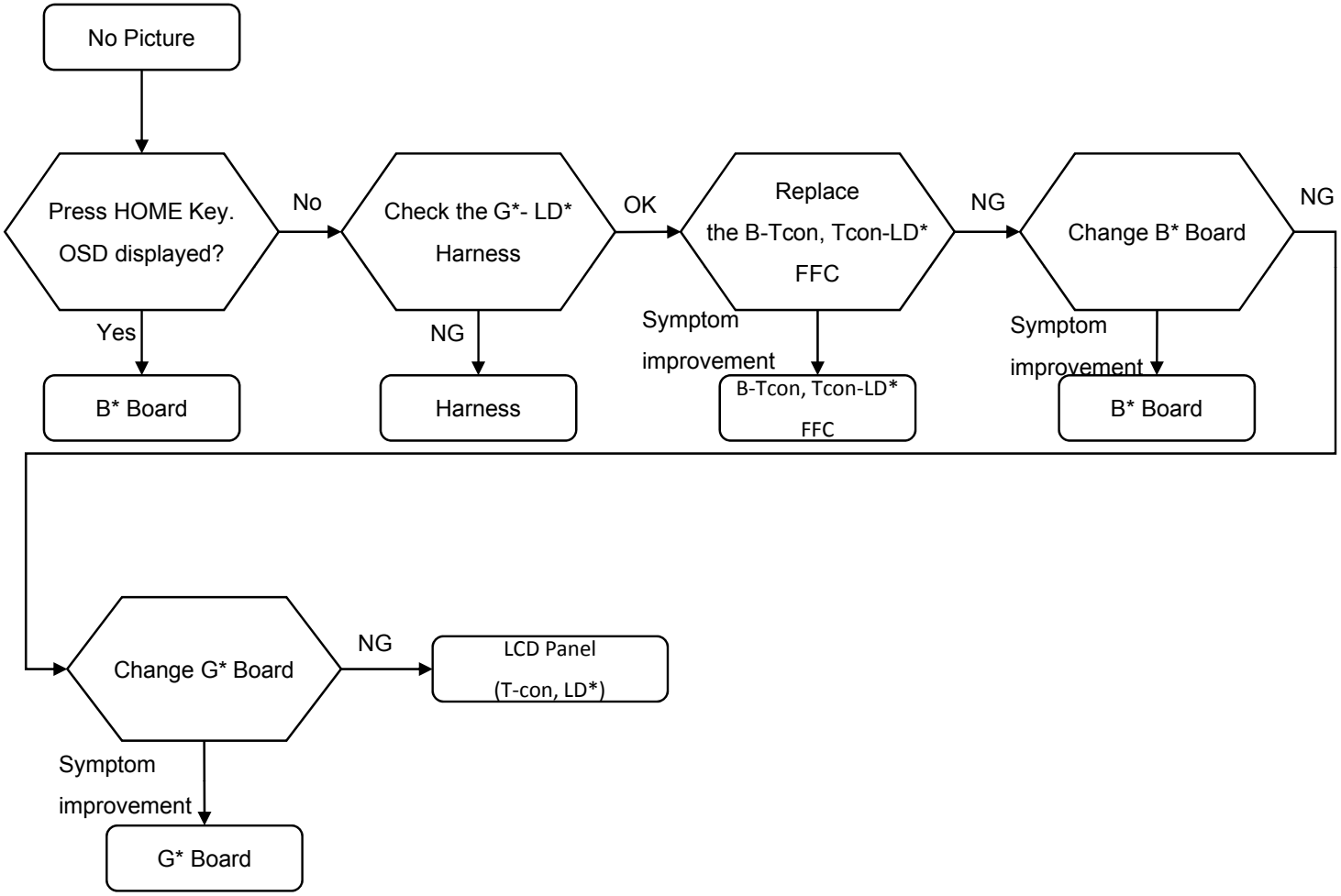


Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

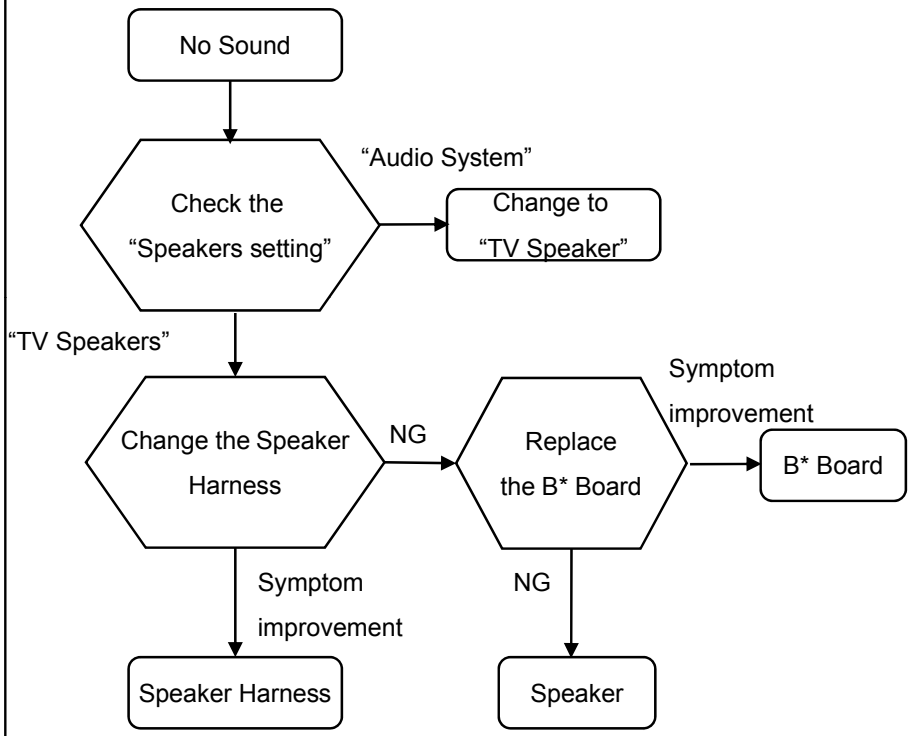
3-4. NO PICTURE

3-4-2. (HFR Model Only)

* Not applicable for these model

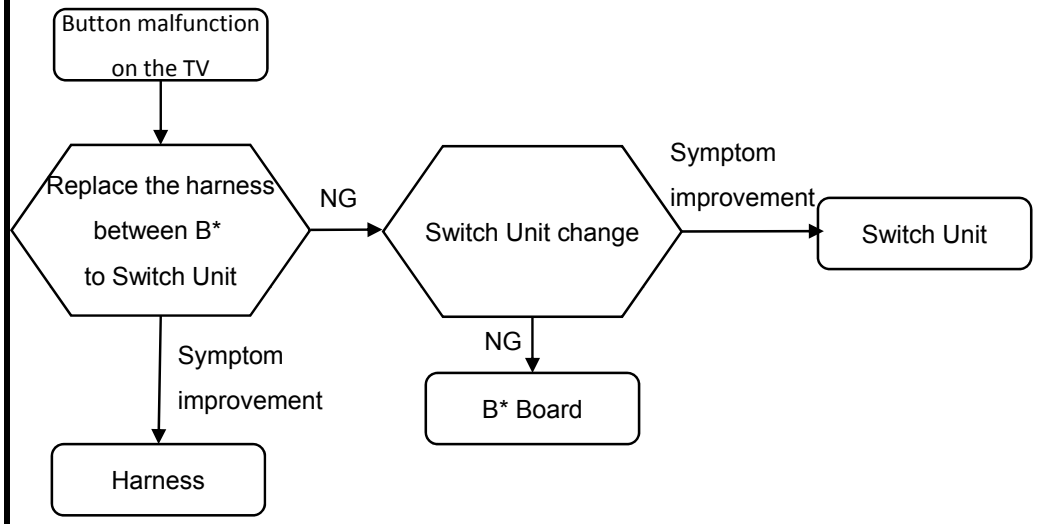


3.5. NO SOUND



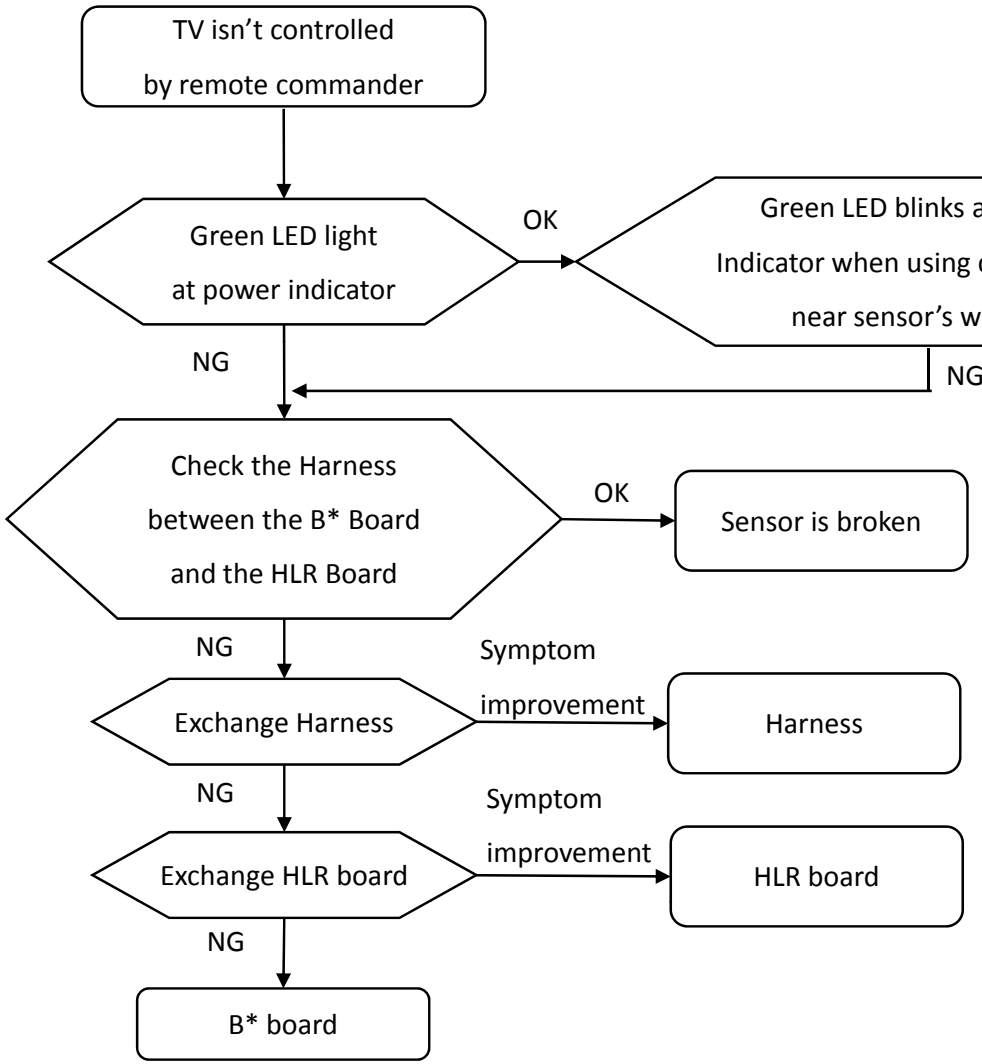
3.6. TV COMMANDER & BUTTONS MALFUNCTION

3-6-1. TV key Malfunction



Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

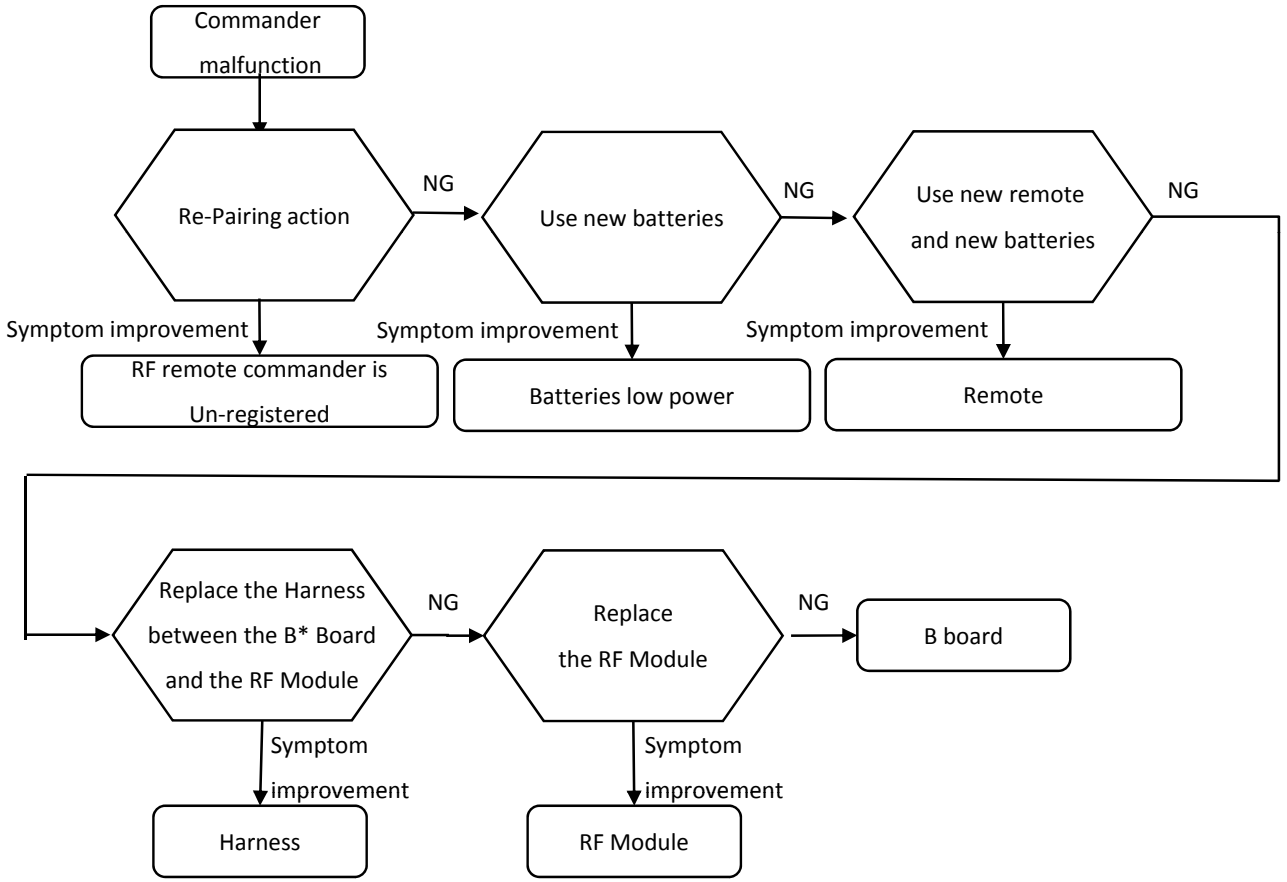
3-6-2. IR remote commander malfunction



Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

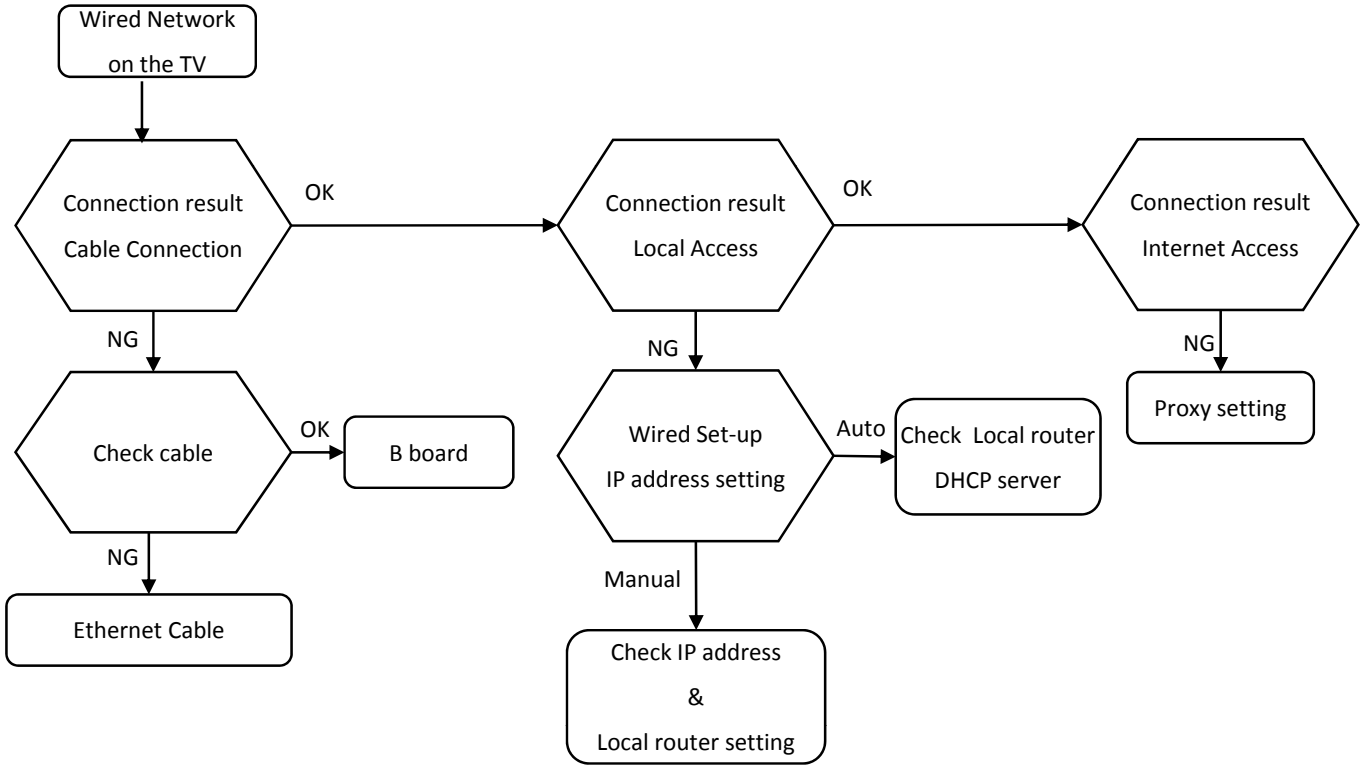
3-6-3. RF remote commander malfunction

* Not applicable for these model.



3-7. Network MALFUNCTION

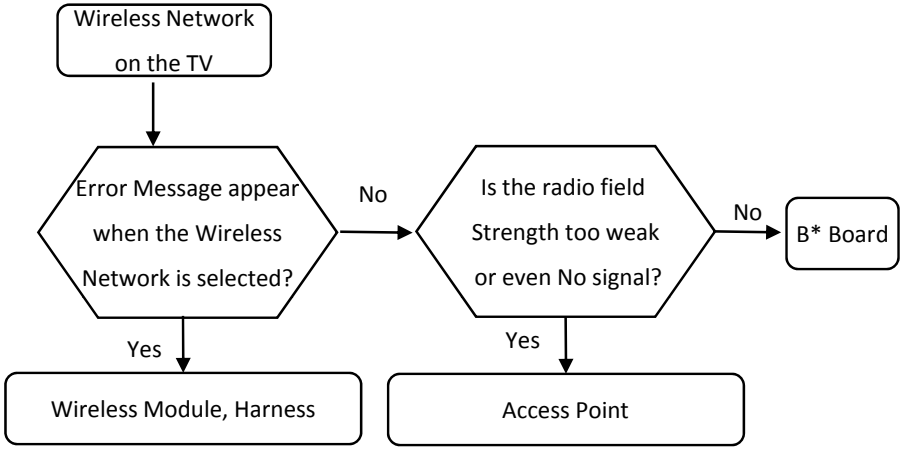
3-7-1. Wired Network malfunction



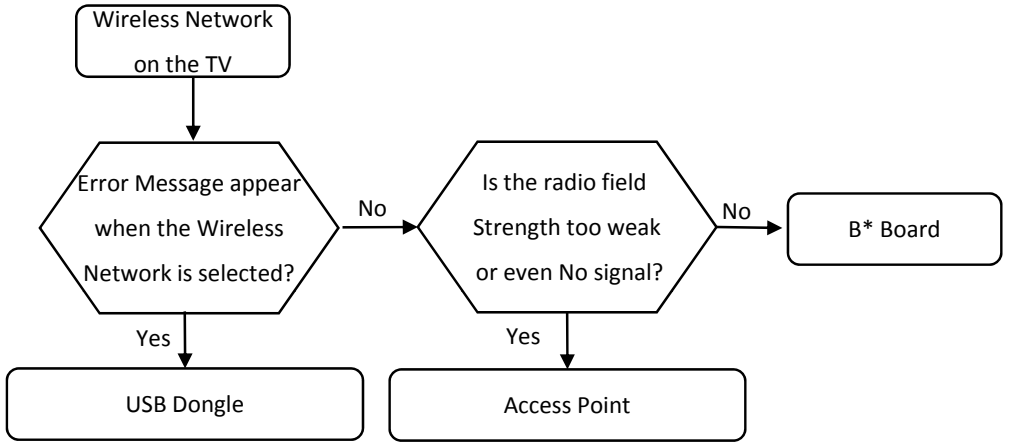
Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

3-7-2. Internal Wireless Network malfunction

* Not applicable for these model.

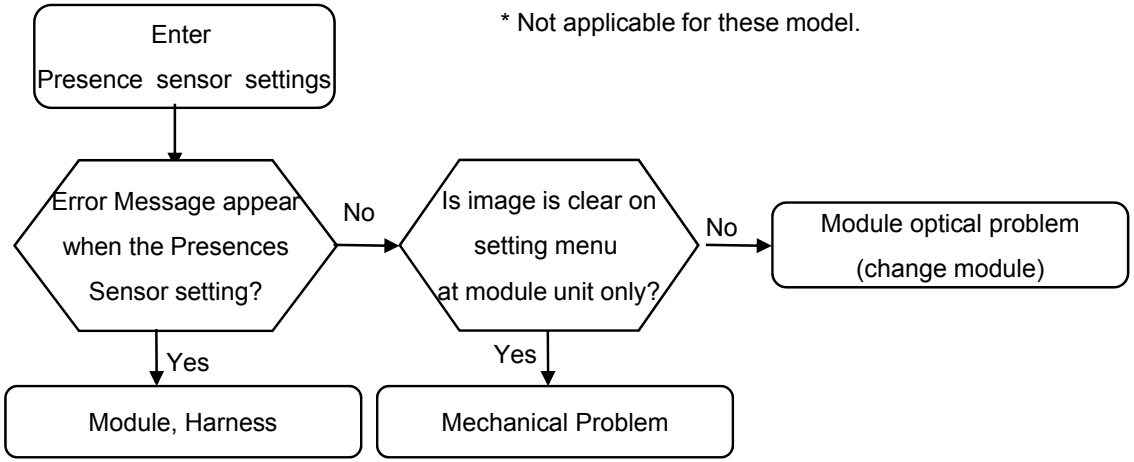


3-7-3. USB Wireless Network malfunction



Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

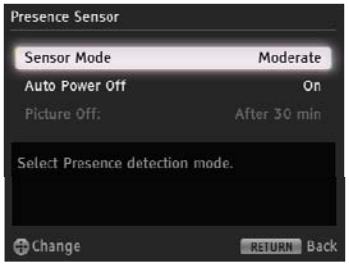
3-8. CAMERA MALFUNCTION



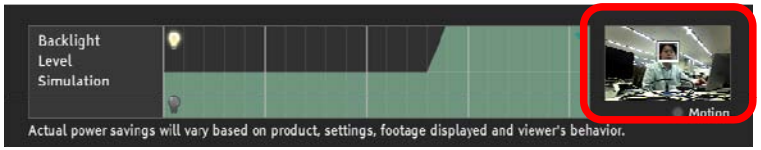
* Not applicable for these model.

Error message

Setting Menu



image

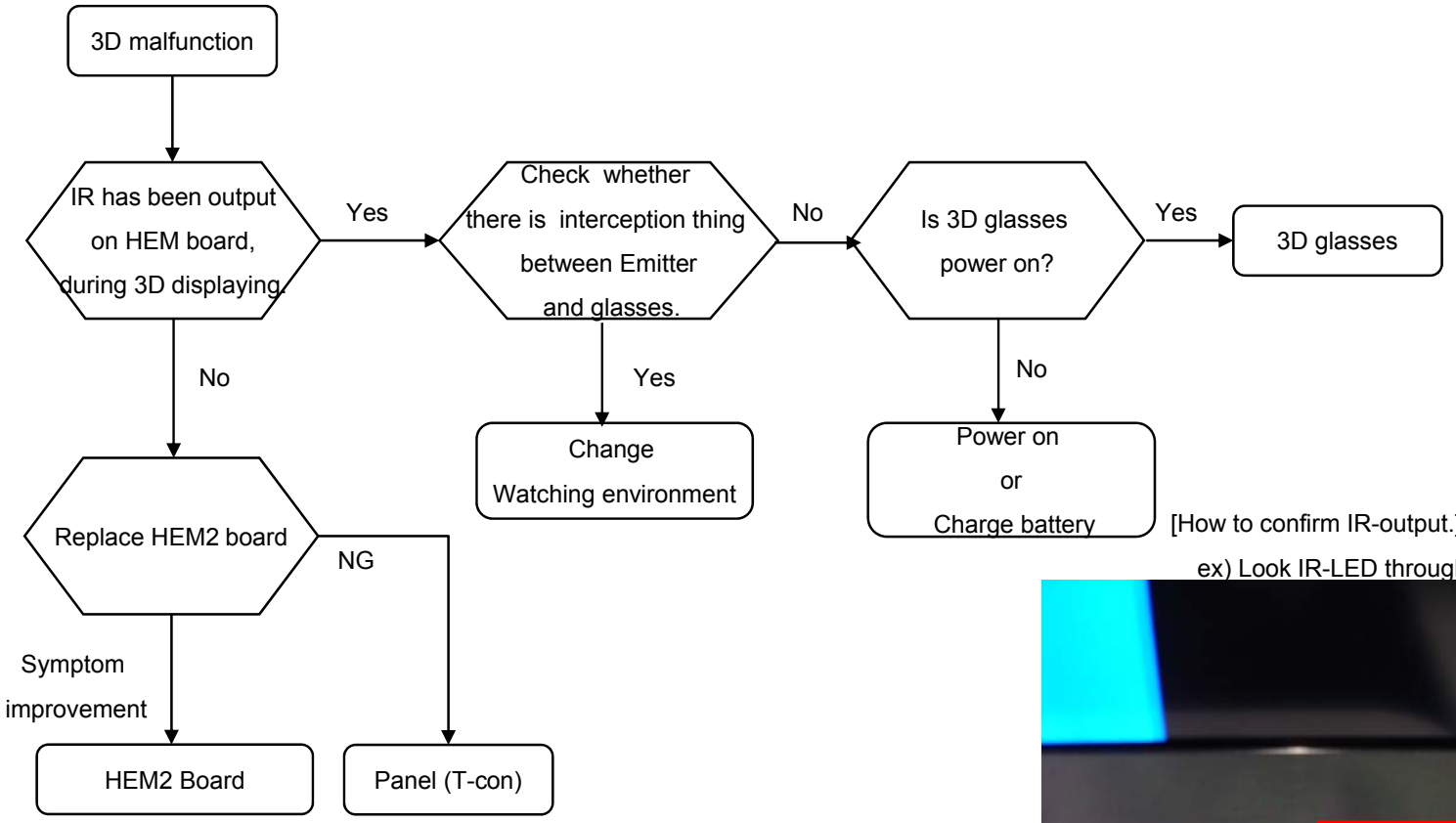


Presence Sensor Setting:

Press HOME, then select > System Settings > Eco > Presence Sensor

3-9. 3D MALFUNCTION

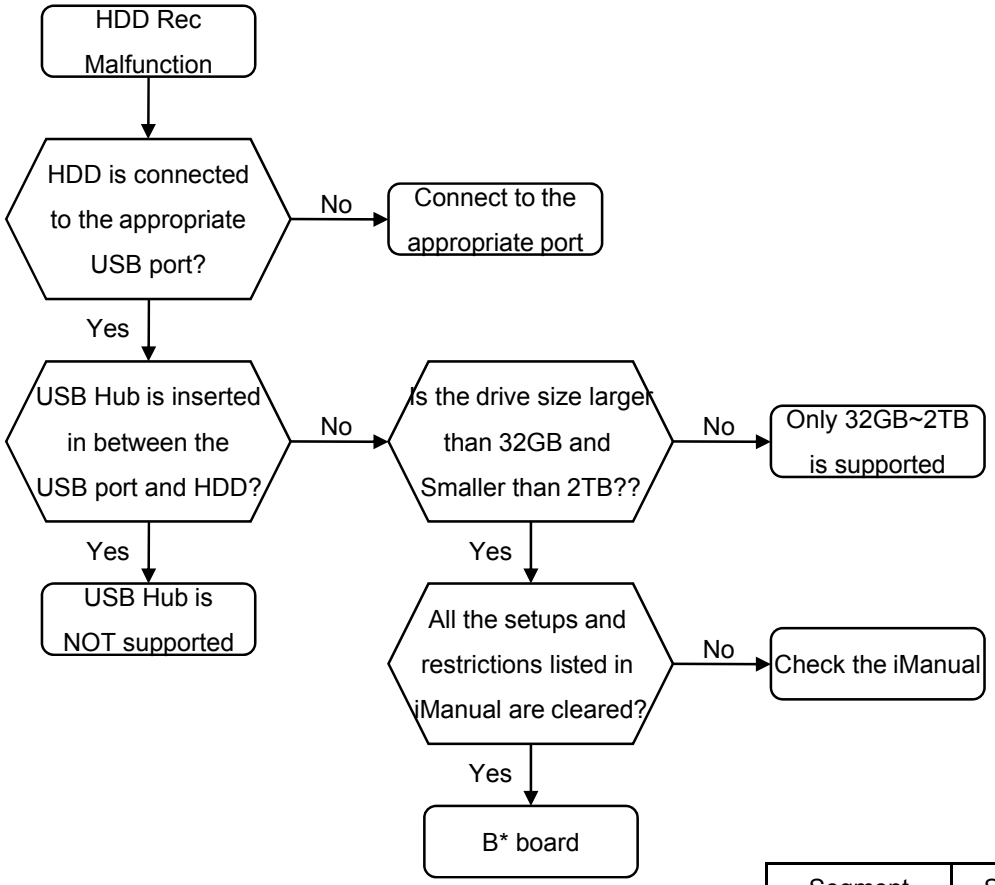
* Not applicable for these model



[How to confirm IR-output.]

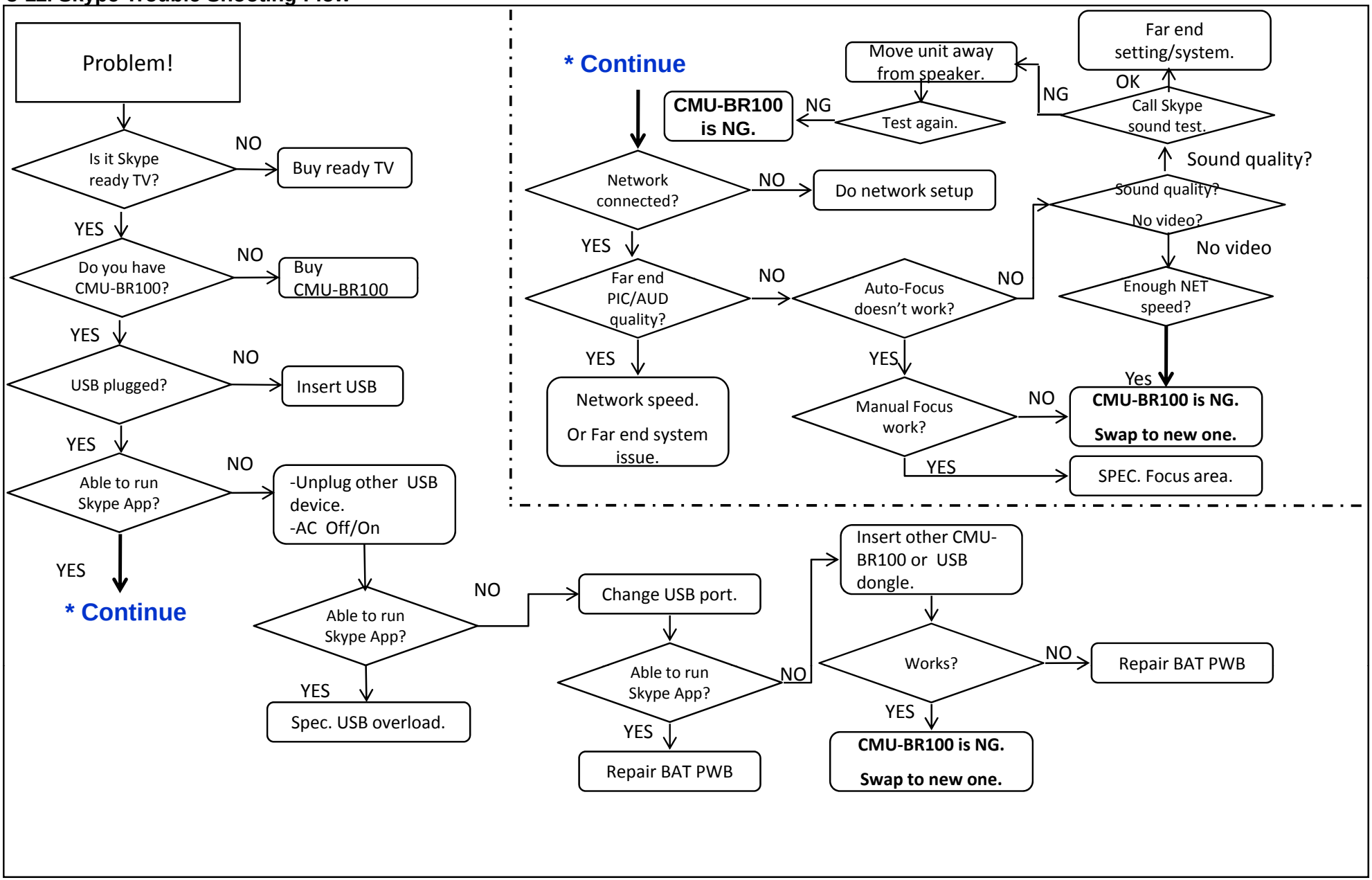
ex) Look IR-LED through CCD/CMOS camera.

3-10. HDD-Rec MALFUNCTION



Segment	Size	B* Board Type	G* Board Type
P-2	22	BAT-S	GD1
P-2	32	BAT-V	G2A
P-2	40	BAT-V	G2B
P-2	46	BAT-V	G3

3-11. Skype Trouble Shooting Flow

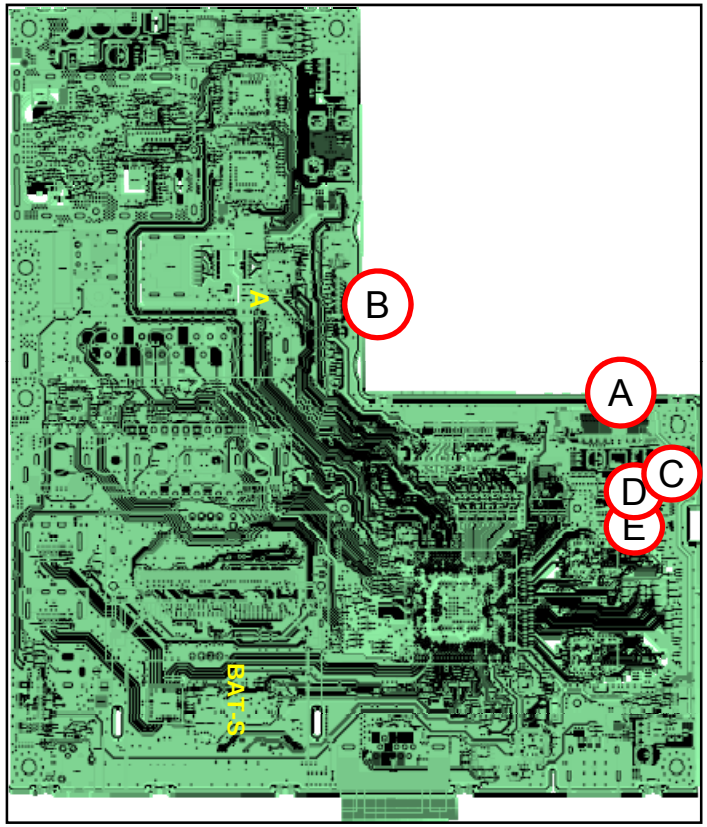


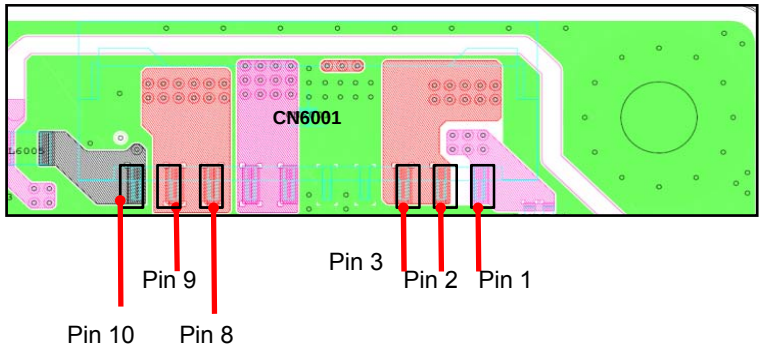
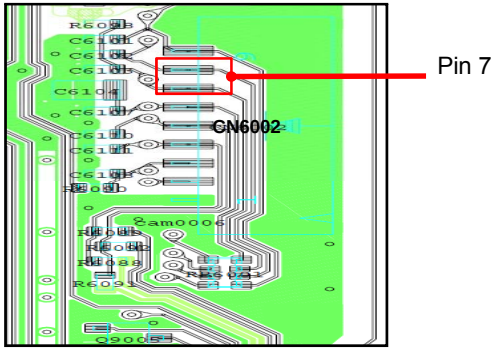
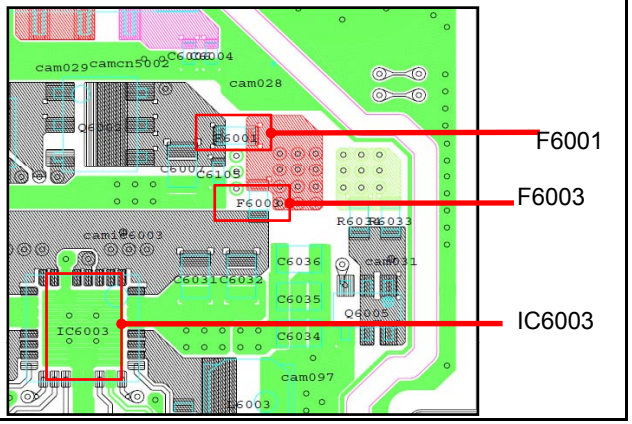
3-12. Troubleshooting Reference

3-12-1. BAT-S (A Side) (22")

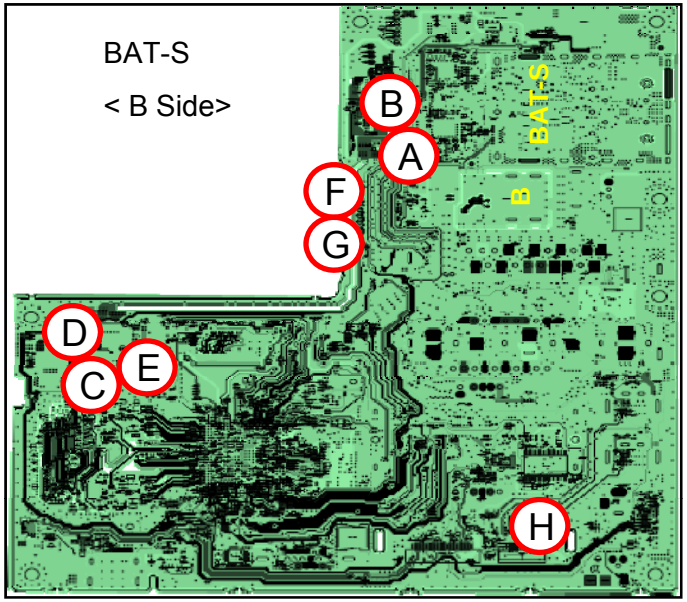
Note: Refer to each Troubleshooting for details information.

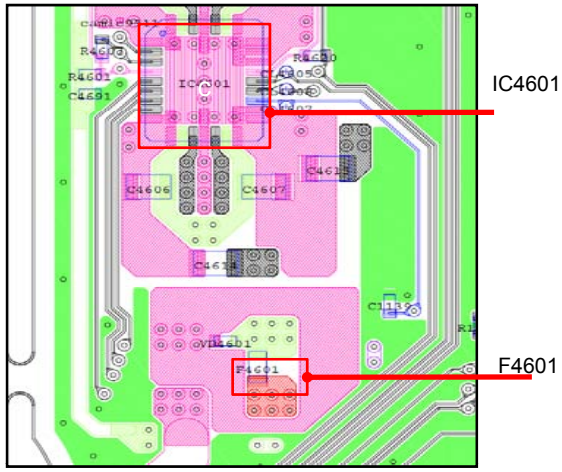
BAT-S < A Side>

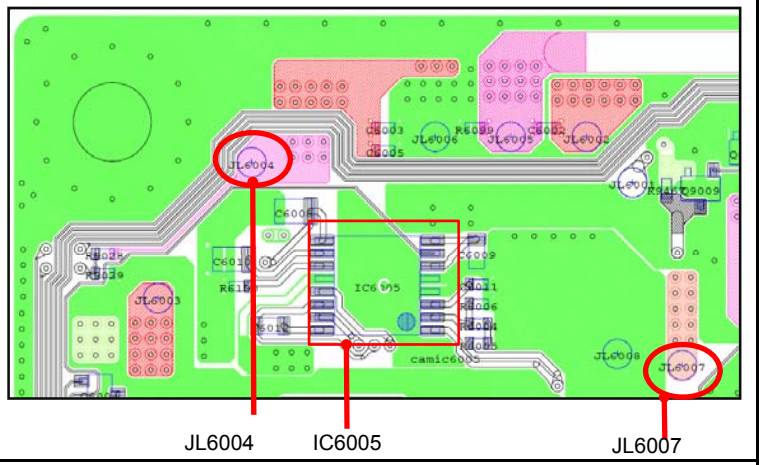
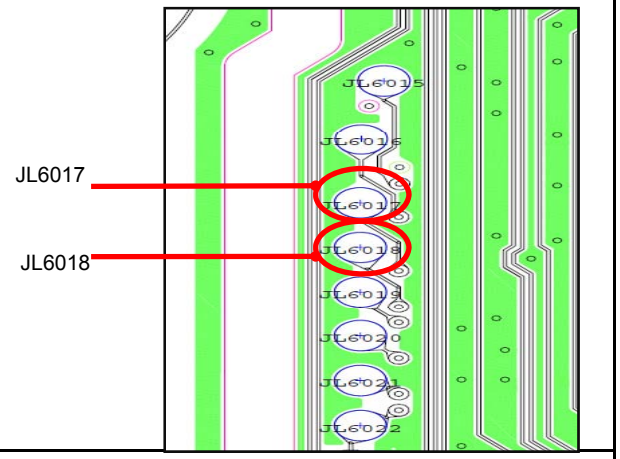
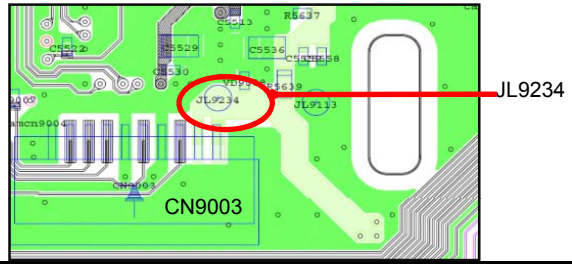


Parts Location	Parts	PWB Drawing Parts Location
A	**CN6001** i) Pin 1 ii) Pin 2 iii) Pin 3 iv) Pin 8 v) Pin 9 vi) Pin 10	
B	**CN6002** i) Pin 7	
C D E	F6001 F6003 IC6003	

3-12-2. BAT-S (B Side) (22")

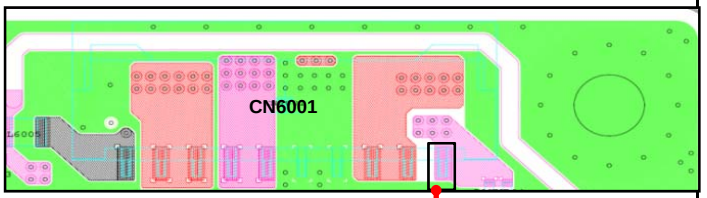
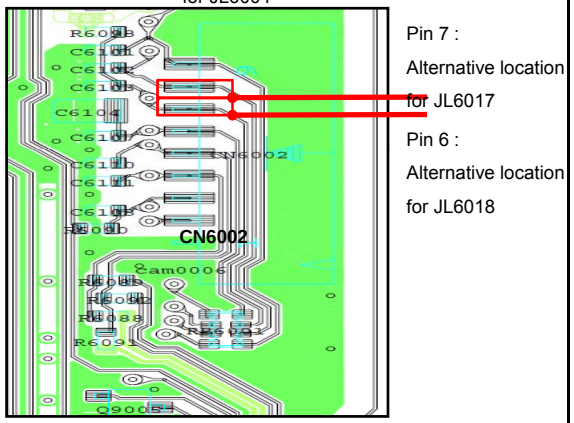


Parts Location	Parts	PWB Drawing Parts Location
A	F4601	
B	IC4601	

Parts Location	Parts	PWB Drawing Parts Location
C	IC6005	
D	*JL6004	
E	JL6007	
F	*JL6017 (near F4601)	
G	*JL6018 (near F4601)	
H	*JL9234 (near CN9003)	

Note: Parts marked (*) Refer to 3-12-3 for (Alternative Location) information

3-12-3. BAT-S (Alternative Location) (22")

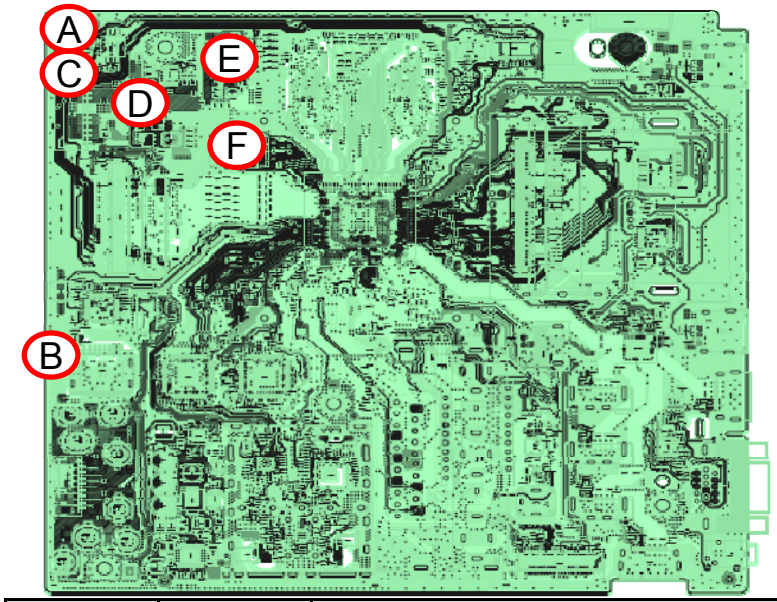
Parts	PWB Side	Alternative Location	PWB Side	PWB Drawing Parts Location
JL6004	B Side	CN6001 Pin 1 : T-CON_VCC	A Side	
JL6017	B Side	CN6002 Pin 7 : BL_ERR	A Side	
JL6018	B Side	CN6002 Pin 6 :BL_ON	A Side	

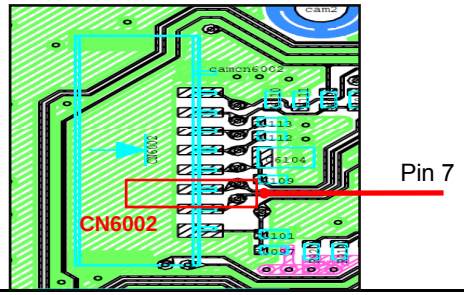
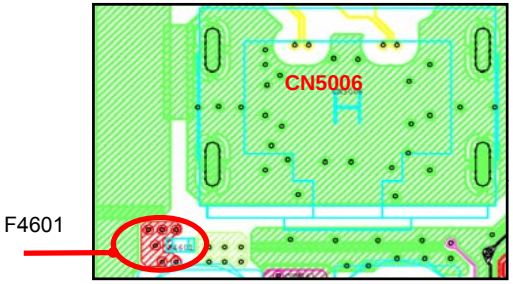
3-12. Troubleshooting Reference

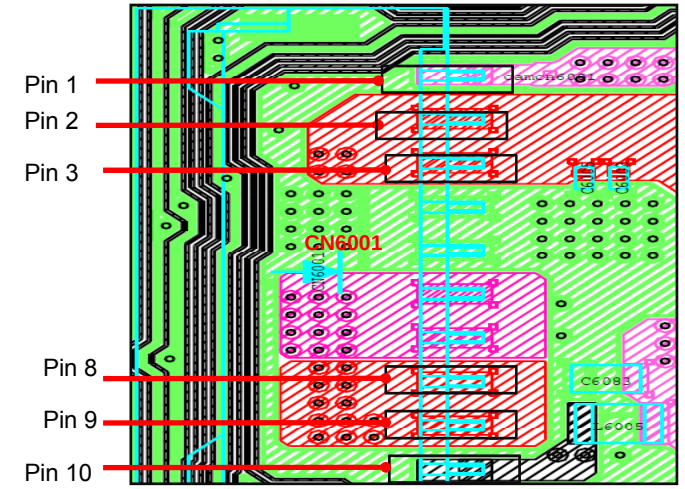
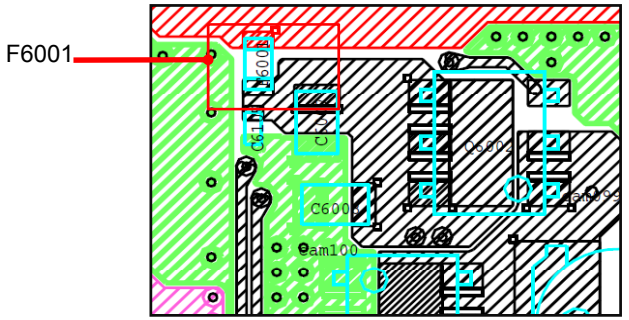
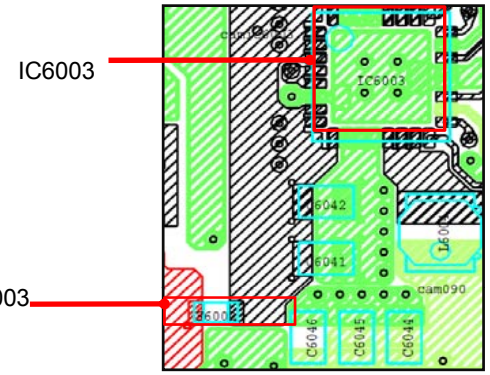
3-12-4. BAT-V (A Side) (32”, 40”, 46”)

Note: Refer to each Troubleshooting for details information.

BAT-V < A Side>



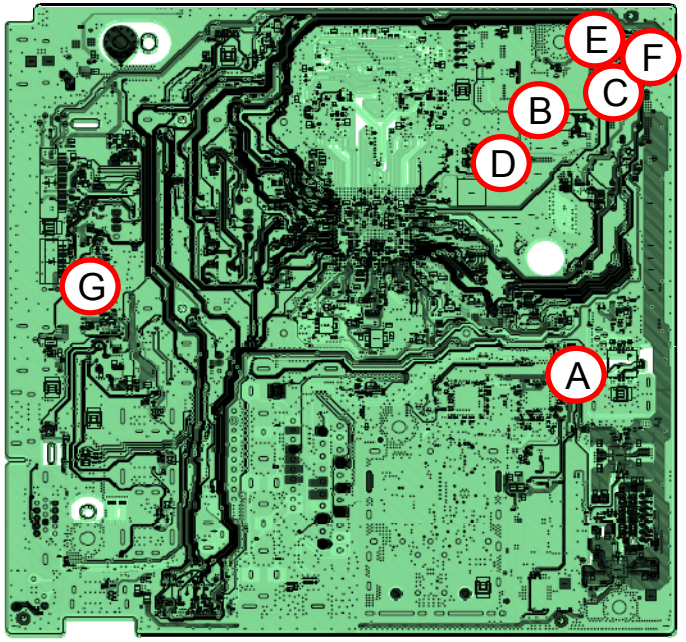
Parts Location	Parts	PWB Drawing Parts Location
A	CN6002 i) Pin 7	
B	F4601	

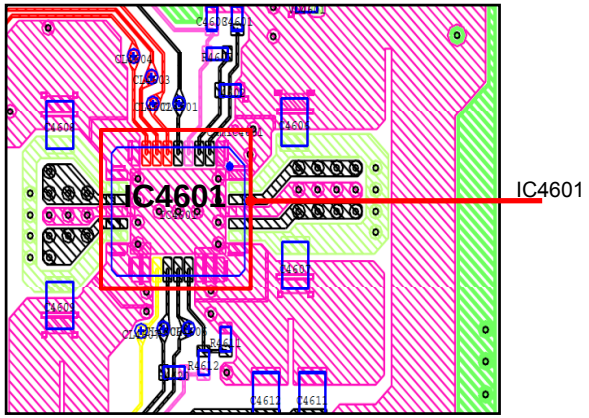
Parts Location	Parts	PWB Drawing Parts Location
C	**CN6001** i) Pin 1 ii) Pin 2 iii) Pin 3 iv) Pin 8 v) Pin 9 vi) Pin 10	
D	F6001	
E F	IC6003 F6003	

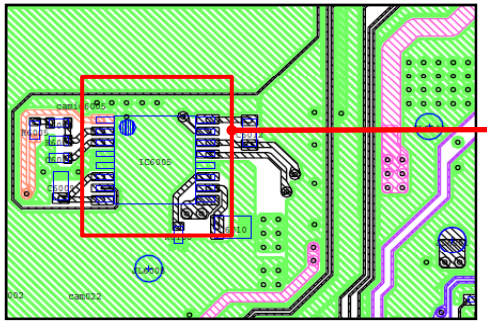
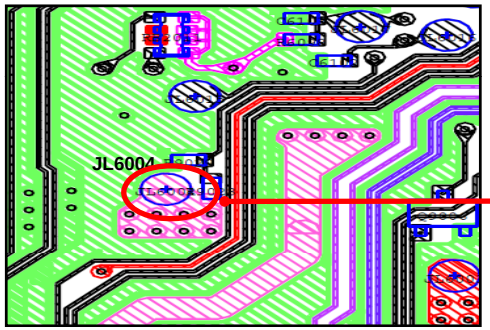
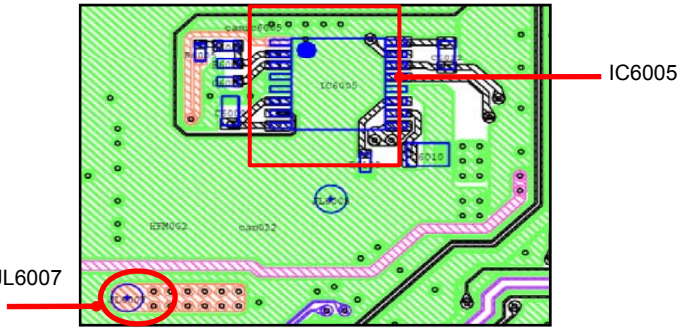
3-12-5. BAT-V (B Side) (32”, 40”, 46”)

BAT-V

< B Side>

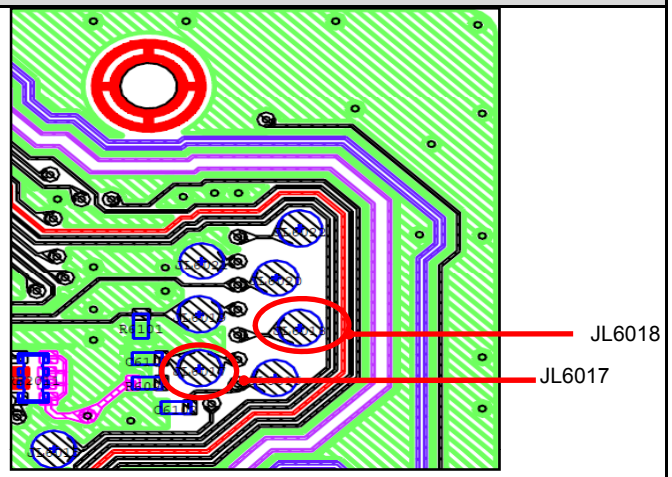
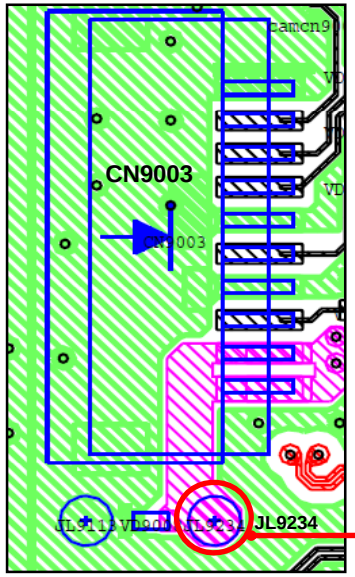


Parts Location	Parts	PWB Drawing Parts Location
A	IC4601	

Parts Location	Parts	PWB Drawing Parts Location
B	IC6005	
C	*JL6004	
D	JL6007	

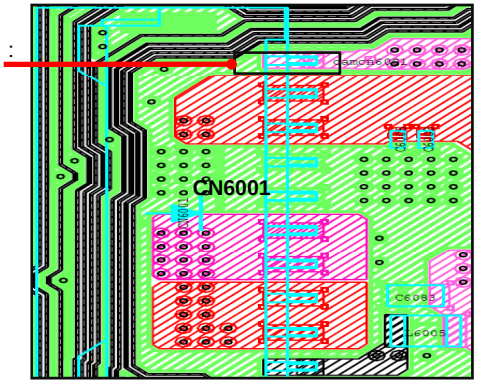
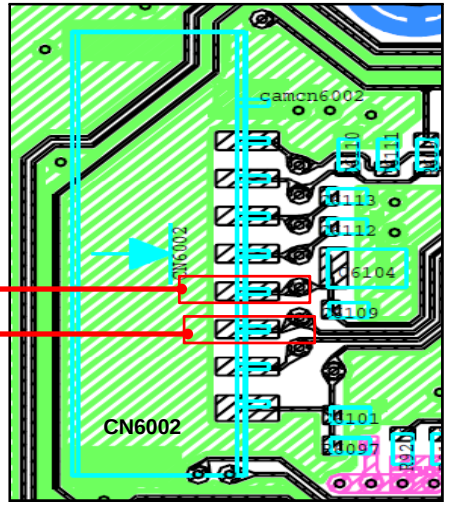
Note: Parts marked (*) Refer to 3-12-7 for (Alternative Location) information

3-12-6. BAT-V (B Side) (32”, 40”, 46”)

Parts Location	Parts	PWB Drawing Parts Location
E	*JL6017	
F	*JL6018	
G	JL9234 (near CN9003)	

Note: Parts marked (*) Refer to 3-11-7 for (Alternative Location) information

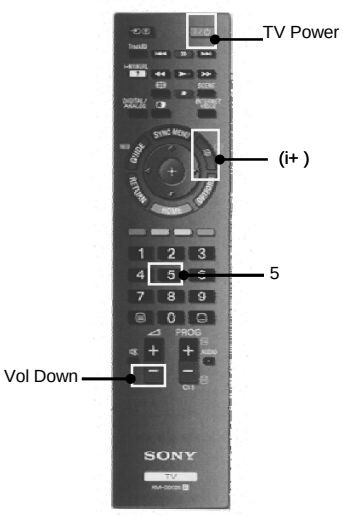
3-12-7. BAT-V (Alternative Location) (32”, 40”, 46”)

Parts	PWB Side	Alternative Location	PWB Side	PWB Drawing Parts Location
JL6004	B Side	CN6001 Pin 1 : T-CON_VCC	A Side	
JL6017	B Side	CN6002 Pin 7 : BL_ERR	A Side	
JL6018	B Side	CN6002 Pin 6 :BL_ON	A Side	

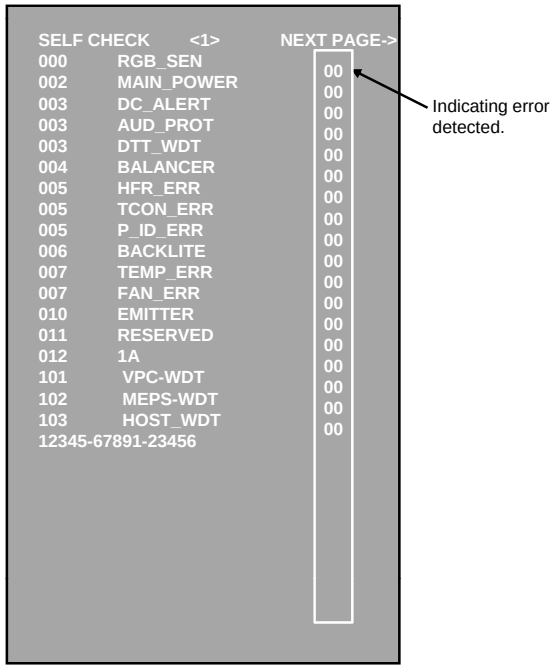
SECTION 4
SERVICE ADJUSTMENT

4-1. Accessing Self Diagnostic Menu

1. While LCD TV set is on standby mode, press the following sequence on the Remote Commander key. (RM-GD020)
   < i+> → <5> → <Vol Down> → <TV Power>



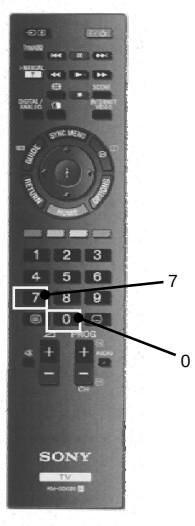
Remote Commander



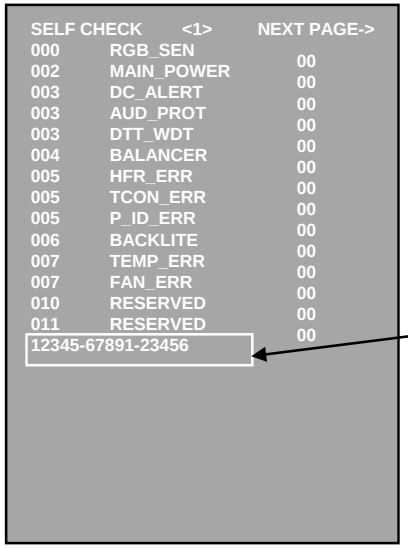
Diagnosis Menu Sample

2.To Reset Error Count & Error History: Press < 8 > → < 0 > key

3. To Reset Panel Operation Time (Applicable Only when Panel is replaced):
   Press < 7 > → < 0 > key



Remote Commander

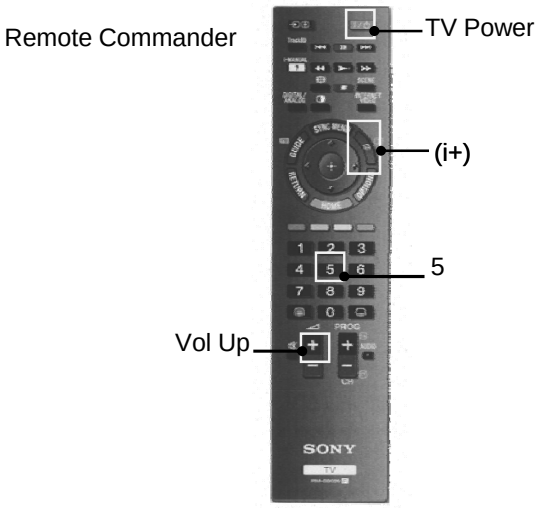


Diagnosis Menu Sample

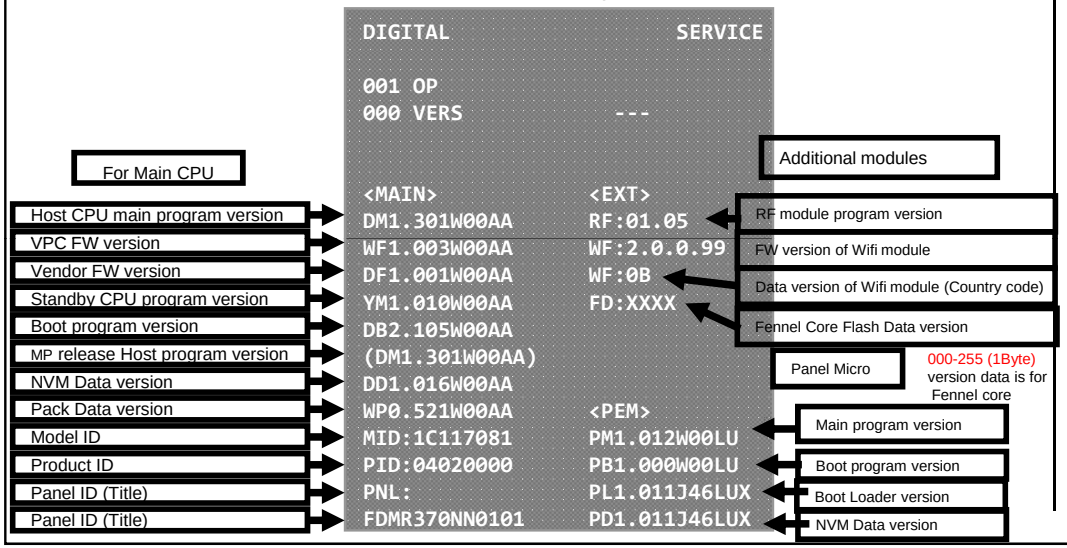
4.To exit, turn the power off using Remote Commander key.

4-2. Accessing Service Mode

While LCD TV set is on standby mode, press the following sequence on the Remote Commander key. < Display> → <5> → <Vol Up> → <Power>

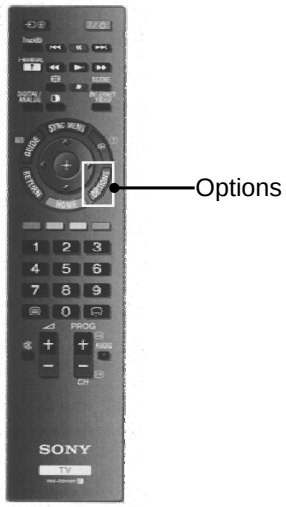


Service Menu Sample



4-3. Transition of each module in service mode

1. There are 3 modules in Service Mode:
   a) Chassis } Service Mode 1
   b) VPC }
   c) Digital } Service Mode 2
2. Digital Service Mode will be appeared first whenever entering Service Mode.
3. To changed the module, please press OPTION key on the remote commander.

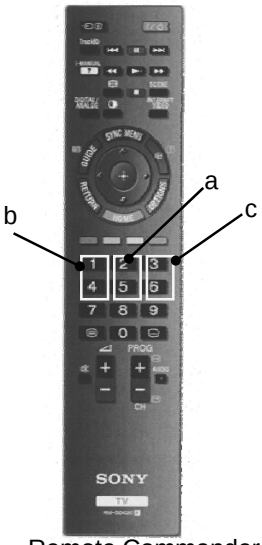


Remote Commander

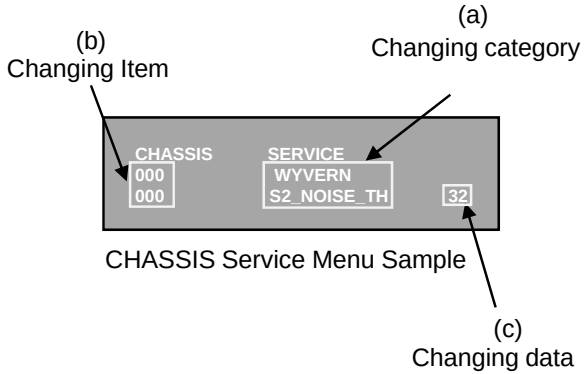
4-4. Change data by Service Mode 1 (Chassis and VPC module)

1. To change category, item and data in CHASSIS or VPC service mode:
   a. Press key **2** or **5** on remote commander to select (up or down) category.
   b. Press key **1** or **4** on remote commander to select (up or down) Item.
   c. Press key **3** or **6** on remote commander to change(up or down) data.

   Remote commander key : 1, 2, 3 is for increment
   Remote commander key : 4, 5, 6 is for decrement



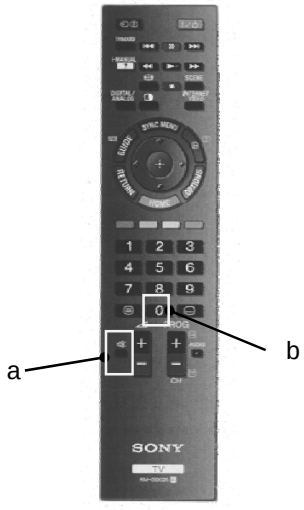
Remote Commander



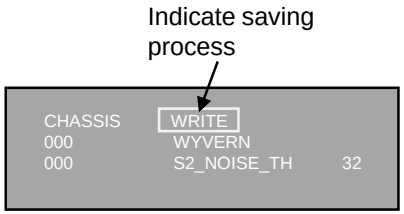
CHASSIS Service Menu Sample

2. To save changed data in Service Mode 1
   a. Press key **Mute** on remote commander. It shows green SERVICE changes to green WRITE.
   b. Press key **0**. Green WRITE changes to red WRITE. It indicate writing is processing.
   c. After a while, red WRITE changes to green SERVICE. Writing process is done at this point.

3. TV reboot is necessary for applying data change.



Remote Commander



CHASSIS Service Menu Sample

4-5. Change data by Service Mode 2 (Digital Service Mode)

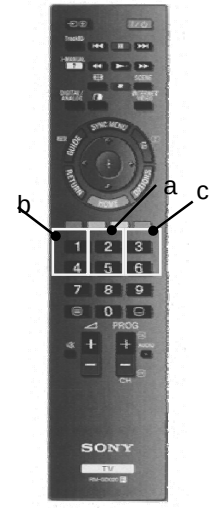
4-5-1. Change data for all Except 003 DIG_SRV_MODE

To change category, item and data in DIGITAL service mode (except 003 DIG_SRV_MODE category):

a. Press key **2** or **5** on remote commander to select (up or down) category.
b. Press key **1** or **4** on remote commander to select (up or down) Item.
c. Press key **3** or **6** to change (up or down) data.

Remote commander key : 1, 2, 3 is for increment
Remote commander key : 4, 5, 6 is for decrement

No need to save for Digital Service Mode (except for 002 MODEL & 005 CHPRESET category)



Remote Commander

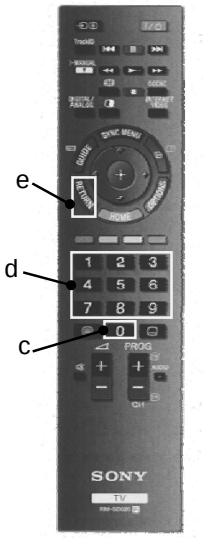
DIGITAL Service menu sample

4-5-2. Change data for 003 DIG_SRV_MODE

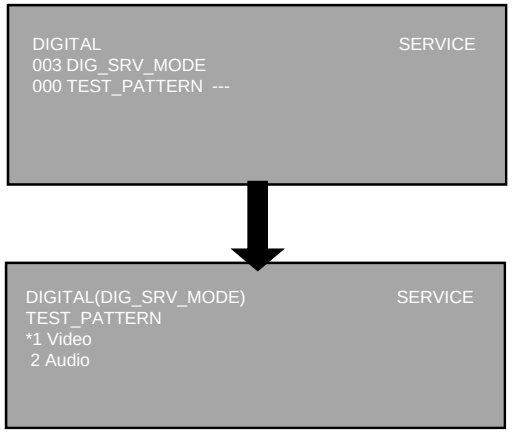
To change item and data in DIGITAL service mode (003 DIG_SRV_MODE category):

Please note because this operation is special.

a. Press key **2** or **5** on remote commander to select 003 DIG_SRV_MODE.
b. Press key **1** or **4** on remote commander to select (up or down) Item.
c. Press key **0** or **10** on remote commander to select item.
d. Press key **1~9** on remote commander directly. Star (*) mark will move accordingly.
e. Press **ENTER** or **SELECT** to decide and advance next step.
Press Remote Commander key RETURN to return to the previous page.



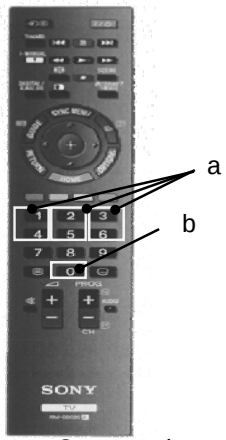
Remote Commander



DIGITAL Service menu sample

4-5-3. Save changing data by Service Mode 2 (for 002 MODEL category)

1. This is only required only when B Board is replaced.
2. Items in Digital service mode for 002 MODEL category.
   - 000 SEG・・・ Select segment information
   - 001 DEST・・・ Select destination information
   - 002 MODELNAME・・・ Select Model Name
   - 003 SERIAL・・・ Can be set Only Once for the new board
3. To change category, item and data :
   a. Press key **2** or **5** on remote commander to select (up or down) category.
   b. Press key **1** or **4** on remote commander to select (up or down) Item.
   c. Press key **3** or **6** on remote commander to change (up or down) data.
   - Remote commander key : **1, 2, 3** is for increment
   - Remote commander key : **4, 5, 6** is for decrement
4. Press mute + 0 on remote commander . It shows red WRITE as the indication that writing is in process.
5. After a while, red WRITE dissappers. Green Done will Display for a while, which means writing process is done.
6. For the item SEG, DEST MODELNAME, after changing each item, service save(mute+0) is needed.
   For the item SERIAL, after inputting the serial number, press key 12 or Enter, the serial data will be saved.
7. Please save the item SEG, DEST, MODELNAME sequentially. (①SEG→ ②DEST→③MODELNAME)
8. When Saving the item "SEG", sometimes instead of "Writing", word "Pending" will appear. In this case, skip the "SEG", save the "DEST" and "MODELNAME" is OK..



Remote Commander

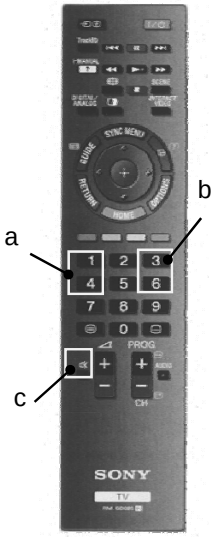
DIGITAL Service menu

DIGITAL	SERVICE
002 MODEL	
000 SEG	I-1
	Write

4-6. White Balance Adjustment

To access to White Balance Service mode, choose VPC Service Mode.

a. Press key **1** or **4** on remote commander to select WB adjustment menu. 006 WB category will be seen on the menu.
b. Change data by pressing **3** or **6**. Each range of these items is 0~255.
c. Press **mute + 0** on remote commander to save the data. **SERVICE** comment is changed to **WRITE**, indicating writing process.
d. After a while, **WRITE** comment returns to SERVICE, which means writing process is done. (takes about a couple of seconds)



Remote Commander

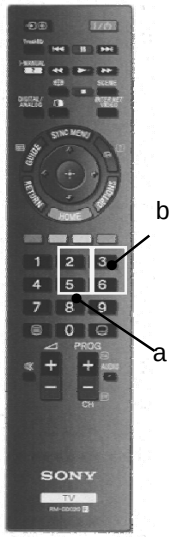
VPC 006 000	SERVICE WB R_DRV		VPC 006 003	SERVICE WB R_BKG	
VPC 006 001	SERVICE WB G_DRV		VPC 006 004	SERVICE WB G_BKG	
VPC 006 002	SERVICE WB B_DRV		VPC 006 005	SERVICE WB B_BKG	

VPC Service menu sample

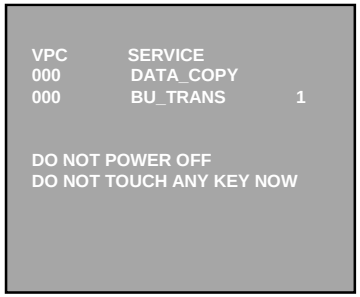
4-7. Restore WB / Gamma adj-data to B board.

In VPC service mode:

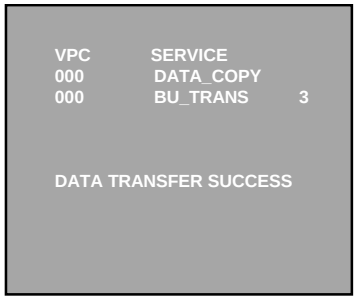
a. Select 000 DATA_COPY category by pressing key **2** or **5** on remote commander.
b. Change data from **0** to **1** by pressing key **3** or **6** on remote commander.
c. Wait until data is changed from **1** to **3**.
d. When data is changed from **1** to **3**, restoring process is finished.
e. In case data is changed from **1** to **2**, keep default setting.
(No more process is needed.)



Remote Commander



Restore process menu sample



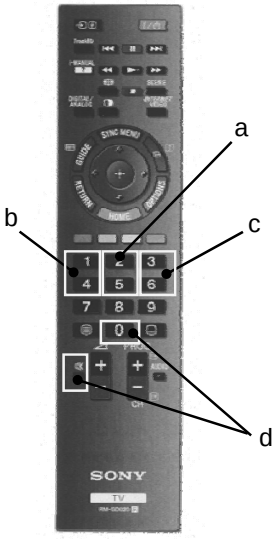
End restore process menu sample

Notes:

1. This restoration should be applied after USB-DL being assembled when B Board is replaced.
2. This process only applicable for 120Hz / 240Hz models only.

4-8. Change the emitter output level (Applicable only for TD model).

1. Purpose to reduce the emitter LED output power strength.
2. Select VPC service mode and then press:
   a. Select 005 TD category by pressing key **2** or **5** on remote commander.
   b. Select 000 EMIT_STR item by pressing key **1** or **4** on remote commander.
   c. Change data from **0** to **1** by pressing key **3** or **6** on remote commander.
      0: Strong (Default)
      1: Weak
   d. Save by pressing **Mute** & **0** or **10** & Reboot.



Remote Commander

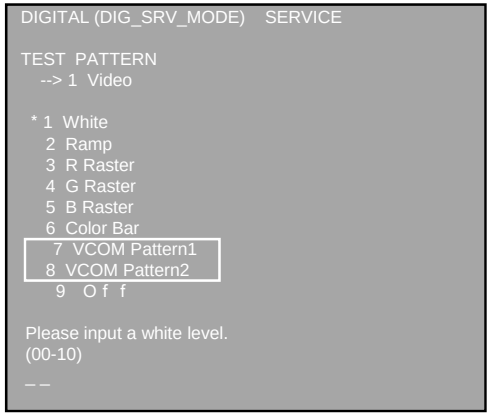
Sub Service menu

4-9. Viewing VCOM Test Pattern

4-9-1. Step 1

To access VCOM Step 1, please select Digital Service Mode first

a. Select **003 DIG_SRV_MODE** category by pressing key **2** or **5** on remote commander.
b. Press key **0** on remote commander to go to TEST PATTERN Mode.
c. Press key **Enter** or **1** or **2** on remote commmander to go into Video TEST PATTERN.
d. Press key **7** or **8** on remote commander to select the test pattern
e. Press key **Enter or Select** on remote commander twice to show the VCOM TEST PATTERN.



VCOM Test Pattern Step 1 menu sample

4-9-2. Step 2

To access VCOM Step 2, please select VPCService Mode first

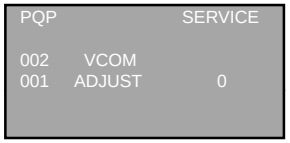
a. Select **002 VCOM** category by pressing key **2** or **5** on remote commander.
b. Select **000 ENABLE** item by pressing key **1 or 4** on remote commander.
c. Change ENABLE from 0 to 1 to enable VCOM adjustment.

VCOM Test Pattern Step 2 menu sample

4-9-3. Step 3

To access VCOM Step 3, please select VPC Service Mode.

a. Select 002 VCOM category by pressing key **2** or **5** on remote commander.
b. Select 001 ADJUST item by pressing key **1** or **4** on remote commander.
c. Change data by pressing key **3** or **6** on remote commander.
d. Finish the adjustment when the picture seems OK.



VCOM Test Pattern Step 3 menu sample

4-9-4. Step 4

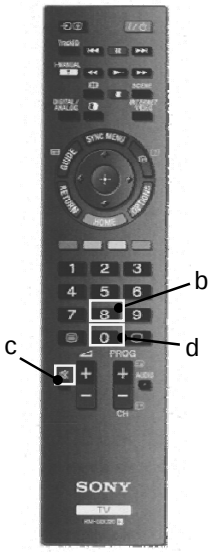
To access VCOM , Step 4, Please select Digital Service Mode

a. Select 007 VCOM category by pressing key **3** or **6** on remote commander.
b. Change data from 1 to 0 by pressing key 3 or 6 on remote commander.
c. Confirm the final result of the VCOM adjustment .
d. If OK, Finish the VCOM adjustment. If NG, pressing 6 to show the OSD again and go back to VCOM adjustment STEP3

VCOM Test Pattern Step 4 menu sample

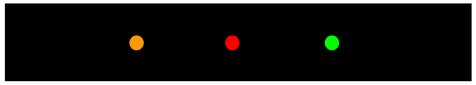
4-10. Set to Shipping Condition

4-10-1. Option 1 (By Accessing to Service Mode)



Remote Commander

a. Move to Digital service mode.
b. Press **8** on remote.
It shows green color letter SERVICE changes to green color letter RST-.
c. Press **mute** on remote.
Added green color letter EXE after green color letter RST- .
d. Press **0** on remote. Green color letter RST-EXE changes to red color letter RST-EXE. It indicated writing is in process.
e. After a while, red color letter RST –EXE changes to green color letter SERVICE. And all LED lights.
Writing process is done at this point.


TIMER Standby POWER

4-11-2. Option 2 (Without accessing to Service Mode)

Without accessing to Service Mode, shipping condition still can be set by pressing remote commander key:
-> **Cursor Up** on remote + **Power Key** on Front panel

4-11. Remote Commander Function

Function	The flow of control
Service mode on	<Test>+<TV>/<Display><5><Vol Up><Power>
Service mode off	<Other> / <Power off + on>
Item up / down	<1>/<4>
Category up / down	<2>/<5>
Data up / down	<3>/<6>
Test reset	<8> + <Mute> + <0>
Execute	<10 or 0>
Write data	<Mute> + <0>
Change module	<Jump> / <Option>

4-12. Index Flow of Service Control

4-12-1. Digital Service Mode

001 OP
- 000 VERS……Software version

002 MODEL
- 000 SEG ……..Select segment information
- 001 DEST……Select destination information
- 002 MODELNAME ……..Select Model Name
- 004 SERIAL ……Can be set Only Once for the new board

003 DIG_SRV_MODE
- 000 TEST_PATTERN…….EMMA Test Pattern
- 001 MONITOR_MODE……Tuner Monitor
- 002 FACT_SETTING……..Factory shipment settings
- <omission>

004 TUNER
- 000 A_NOSIG_DET……Analog-RF No signal detection
- 001 SCAN_COPY……Copy the scan data to USB.
- <omission>

005 CHPRSET……For factory use only.
- <omission>

006 RFRC Mode…….. Service item for RF Remote Commander
- <omission>

007 VCOM…… Service item for VCOM Adjustment
- <omission>

008 WIFI ……Service item for WIFI (only WIFI model)
- <omission>

4-12-2. VPC Service Mode

000 DATA_COPY……WB Data Save Function
- 000 BU_TRANS

001 DATABACKUP…….No use for Service.
- <omission>

002 VCOM ……VCOM Adjustment Function.
- 000 ENABLE
- 001 ADJUST

003 SG_EP ……. ……..No use for Service.
- <omission>

004 MEASURE …… ……No use for Service.
- <omission>

005 …… ……..…….. Emitter Strength setting Function.
- 000 EMIT_STR

006 WB …… …… W/B adjustment
- <omission>

007 GAISO …… .. …….. Change RGB sensor setting by bezel color.
- 000 GAISO

4-12. Index Flow of Service Control
4-12-3. Chassis Service Mode

000 WYVERN
<omission>

001 TUNING
<omission>

002 D_DEMOD
<omission>

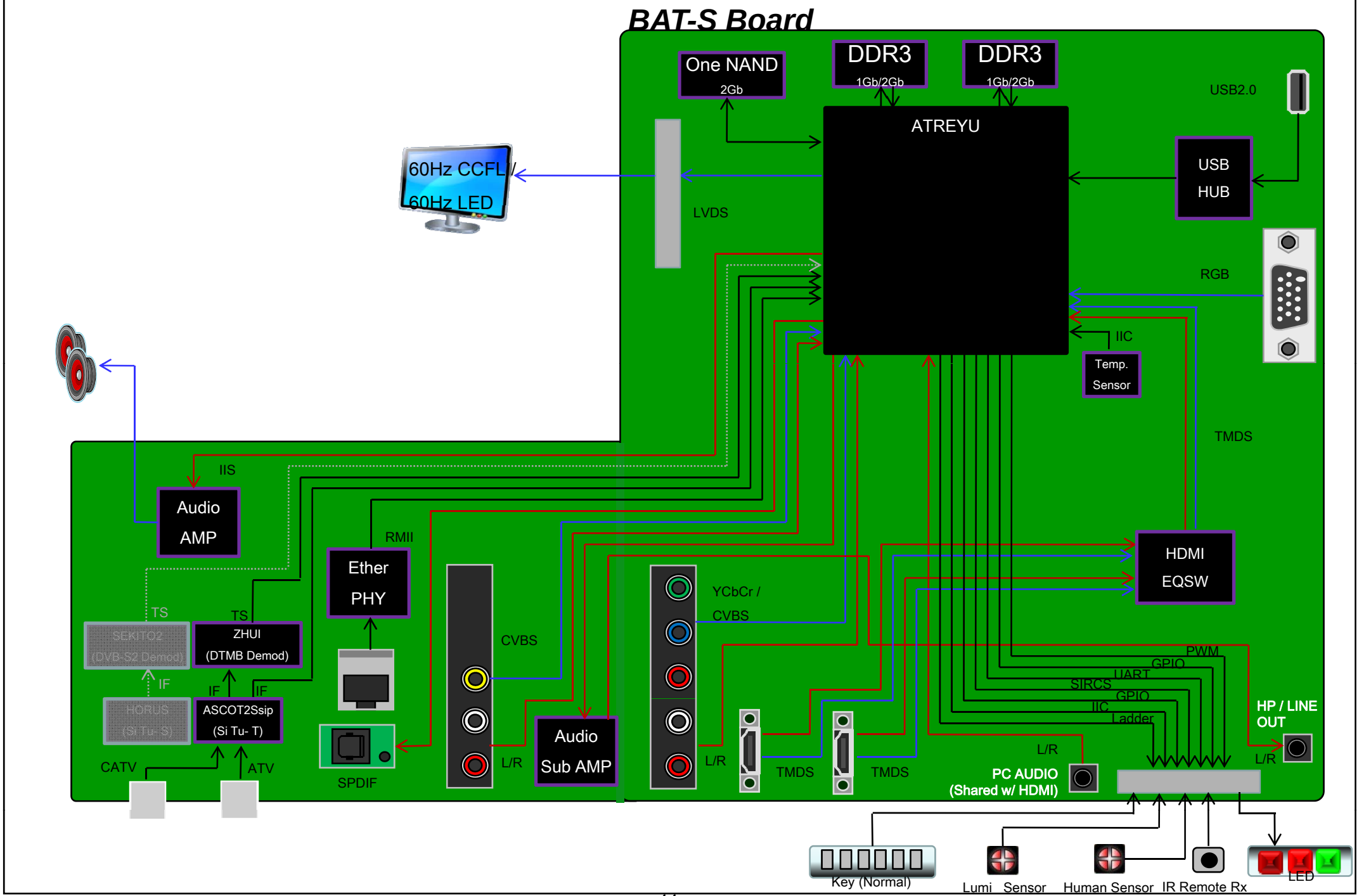
003 SATELLITE
<omission>

004 HDMI
000 FORCE_ARC

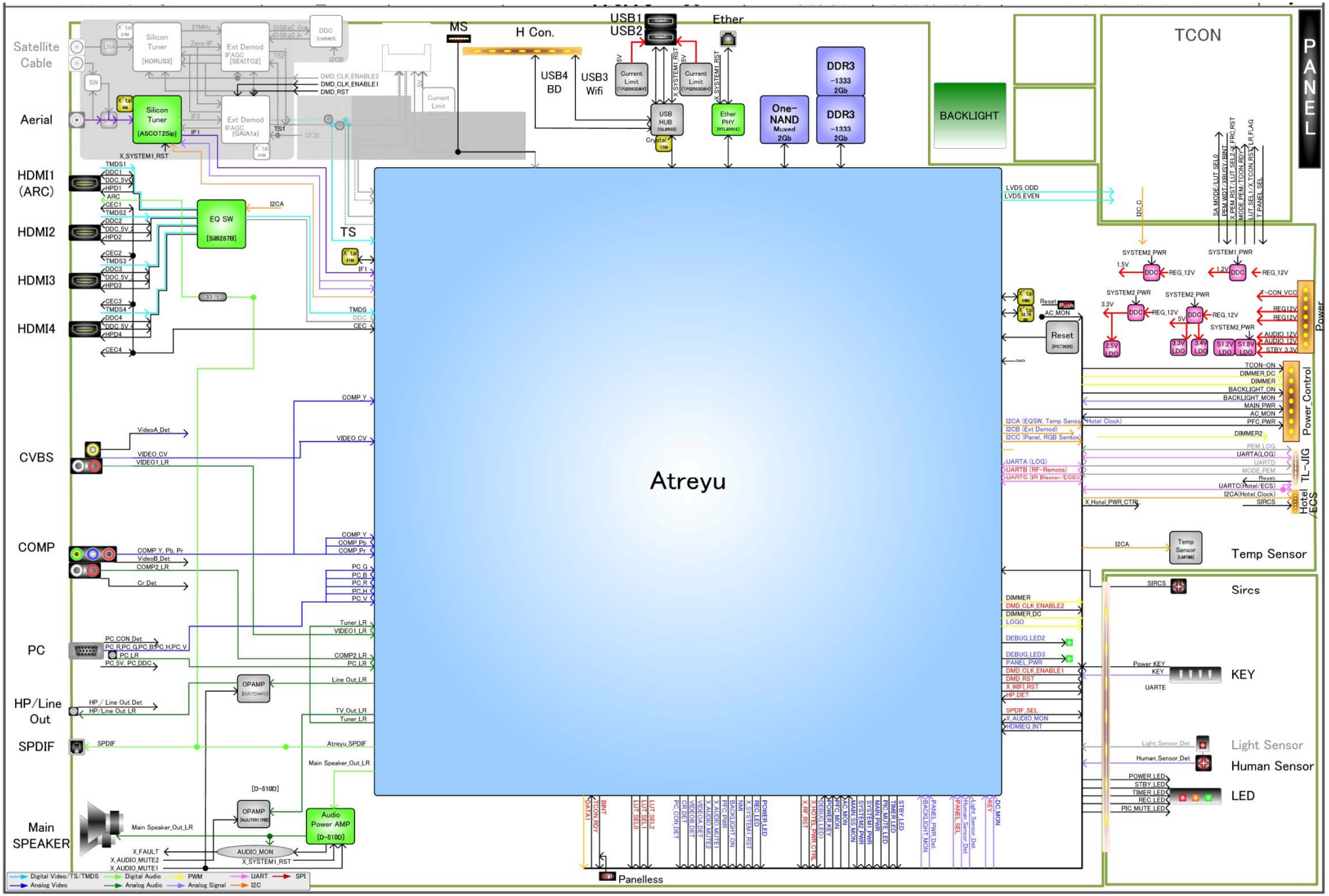
No use for Service.

005 AUDIO
000 MPEG_LV …Level OFFSET for MPEG1-L1/L2.
001 HEAAC_LV …Level OFFSET for HE-AAC.

005 TEMPSEN …….. No Use for Service
<omission>

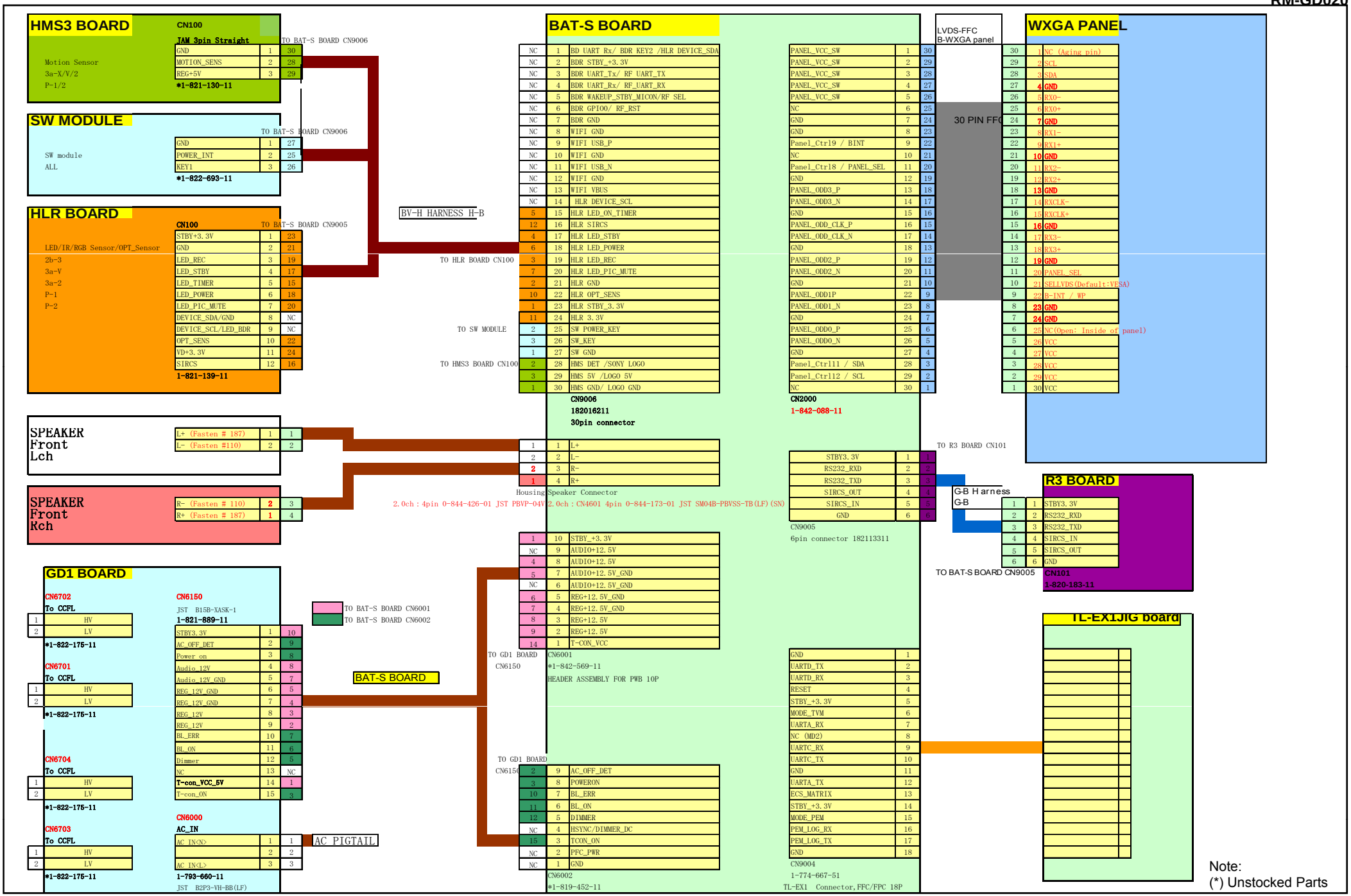

BAT-S Board
One NAND
2Gb
DDR3
1Gb/2Gb
DDR3
1Gb/2Gb
ATREYU
USB2.0
USB
HUB
60Hz CCFL /
60Hz LED
LVDS
RGB
IIC
Temp.
Sensor
TMDS
IIS
Audio
AMP
RMII
Ether
PHY
HDMI
EQSW
TS
TS
SEKITO2
(DVB-S2 Demod)
ZHUI
(DTMB Demod)
IF
IF
IF
HORUS
(Si Tu- S)
ASCOT2Ssip
(Si Tu- T)
CATV
ATV
SPDIF
CVBS
L/R
Audio
Sub AMP
YCbCr /
CVBS
L/R
TMDS
TMDS
PWM
GPIO
UART
SIRCS
GPIO
IIC
Ladder
L/R
PC AUDIO
(Shared w/ HDMI)
HP / LINE
OUT
L/R
Key (Normal)
Lumi Sensor
Human Sensor
IR Remote Rx
LED

5-1-2. (BAT-V)- (32”, 40”, 46”)

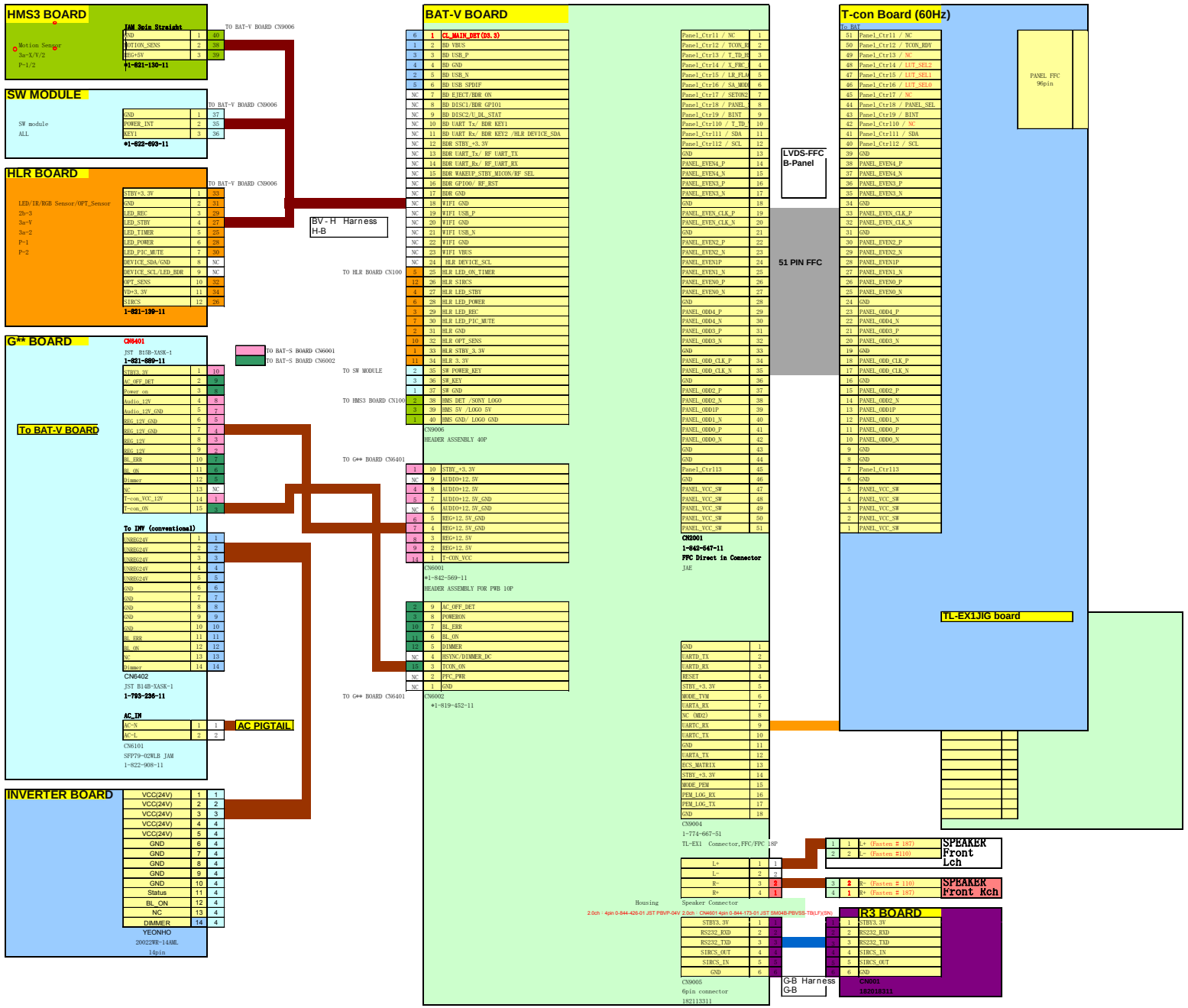


5-2. CONNECTOR DIAGRAM

5-2-1. KDL-22CX520



5-2-2. (KDL- 32", 40", 46")



Segment	Size	G* Board Type
P-2	32	G2A
P-2	40	G2B
P-2	46	G3

Note:
(*) Unstocked Parts

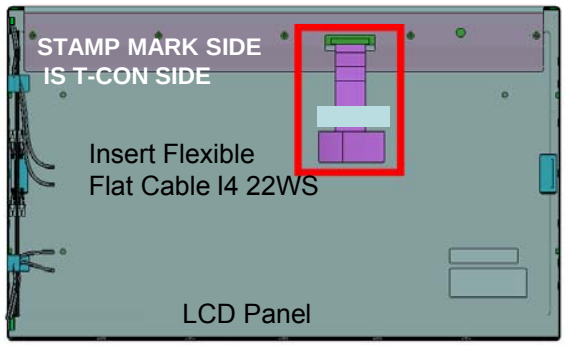
5-3. WIRE DRESSING

5-3-1. KDL-22CX520

CAUTION :
1. Do not overpull the wires during dressing --> avoid disconnection of wires.
2. Make sure wires are kept away from sharp edges, heat sinks & other high-temperature parts.

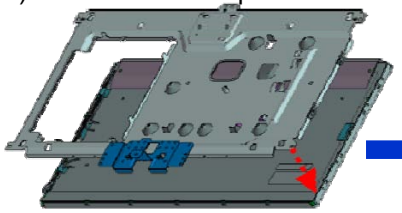
Tape (60mm)

1) LCD Panel and Flexible Flat Cable (FFC)

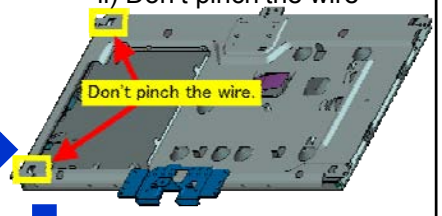


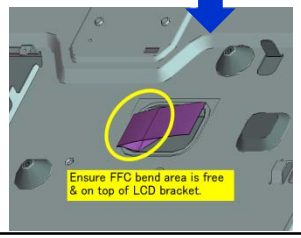
2) LCD Panel, Bracket LCD and Flexible Flat Cable (FFC)

i) Put Bracket on top of LCD Panel



ii) Don't pinch the wire

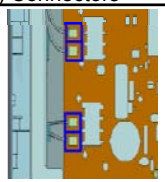




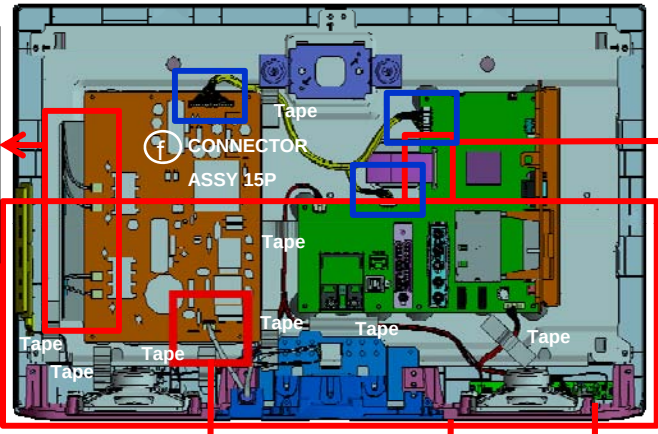
iii) Ensure FFC bend condition

3) Overall Dressing

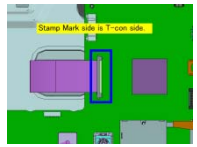
a) Connectors



-Insert Connector to GD1 Board



e) Connector (FFC)

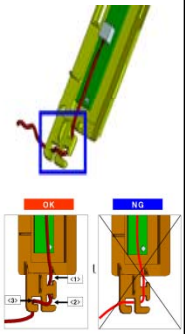


-Insert Connector (FFC)

c) BATS Board

-Insert Main Harness

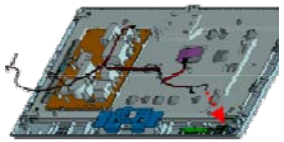
g) Switch Unit



k) Connectors and Power Cord

i) Install Power Cord
ii) Insert Connector to GD1 Board

b) Main Harness

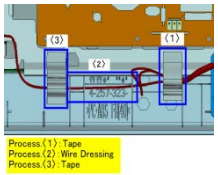


-Insert Main Harness

d)HLR Board

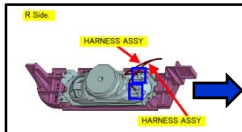
-Insert Main Harness

h) Connectors



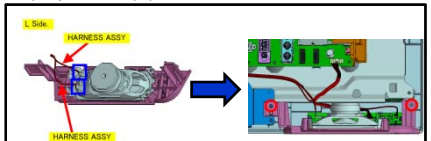
-Please make sure of Wire Dressing before insert Speaker(R)

j) Speaker (R)



-Insert Main Harness

i) Speaker (L)



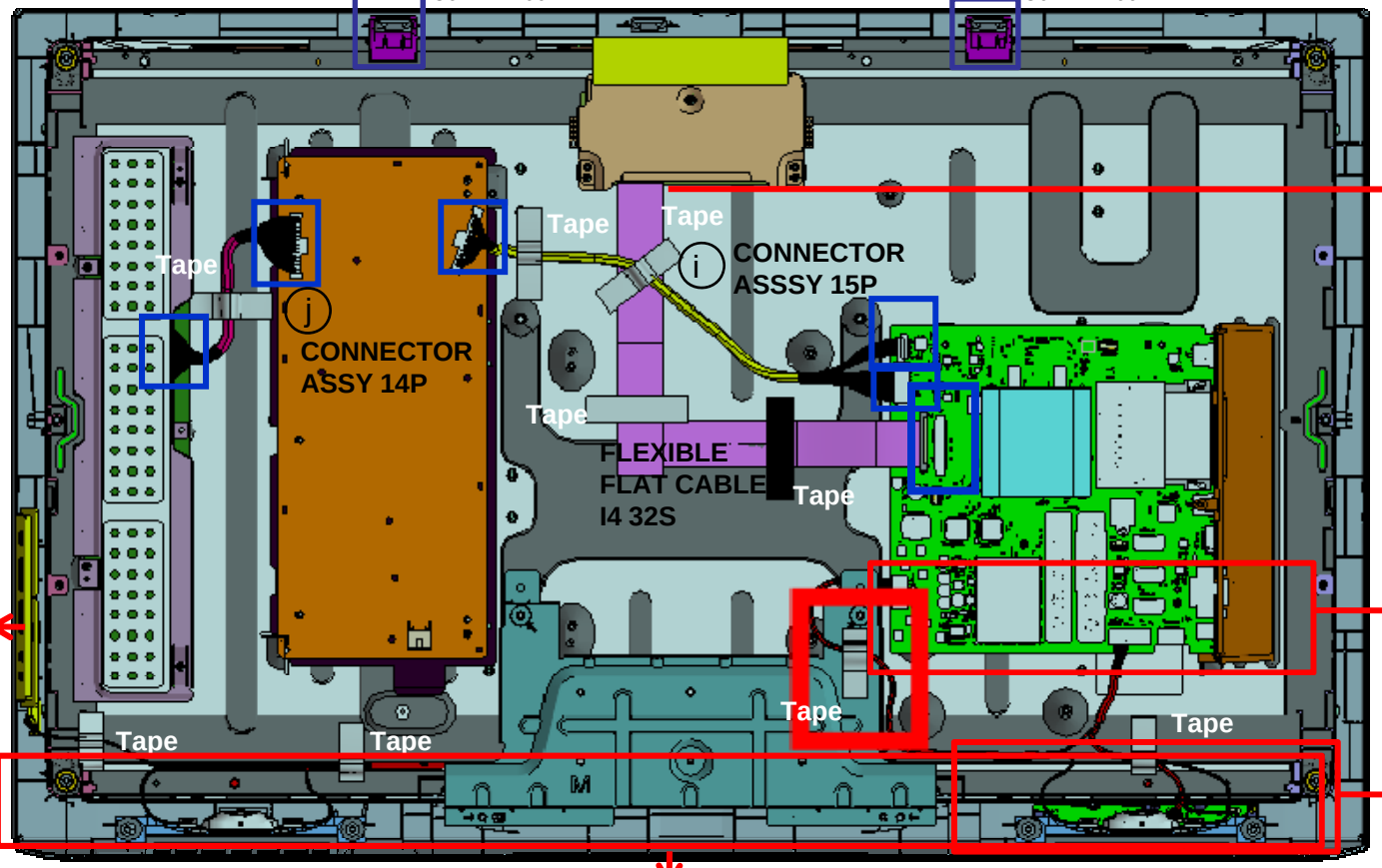
-Insert Main Harness

5-3-2. KDL- 32CX520, 32CX523

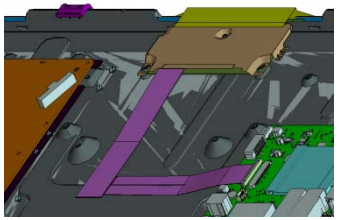
Tape (60mm)

Himeron Tape(15X60)

c) Confirm support panel lock after putting LCD Panel to Bezel

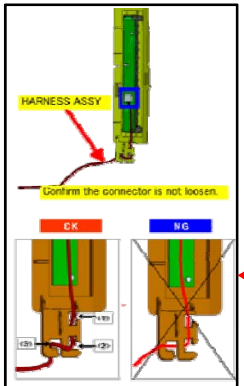


h) FLEXIBLE FLAT CABLE



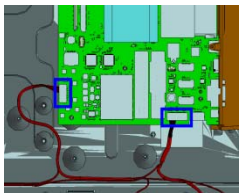
-Insert Connector (FFC)

e) Switch Unit



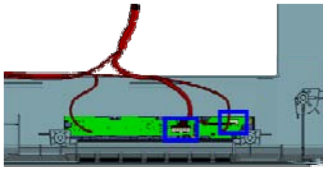
-Insert Main Harness/ Harness Assy

d) BAT-V Board



-Insert Main Harness/ Harness Assy

b) HLR Board



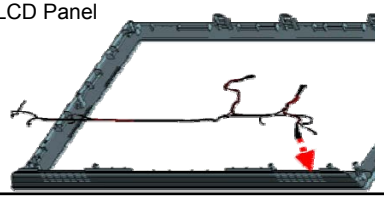
-Insert Main Harness/ Harness Assy

g) Speaker (R)

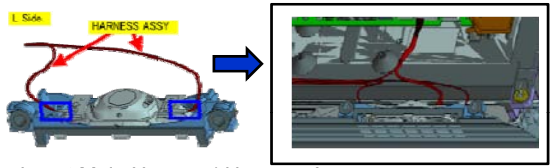
-Insert Main Harness/ Harness Assy

a) Main Harness

* Insert Main Harness before insert LCD Panel

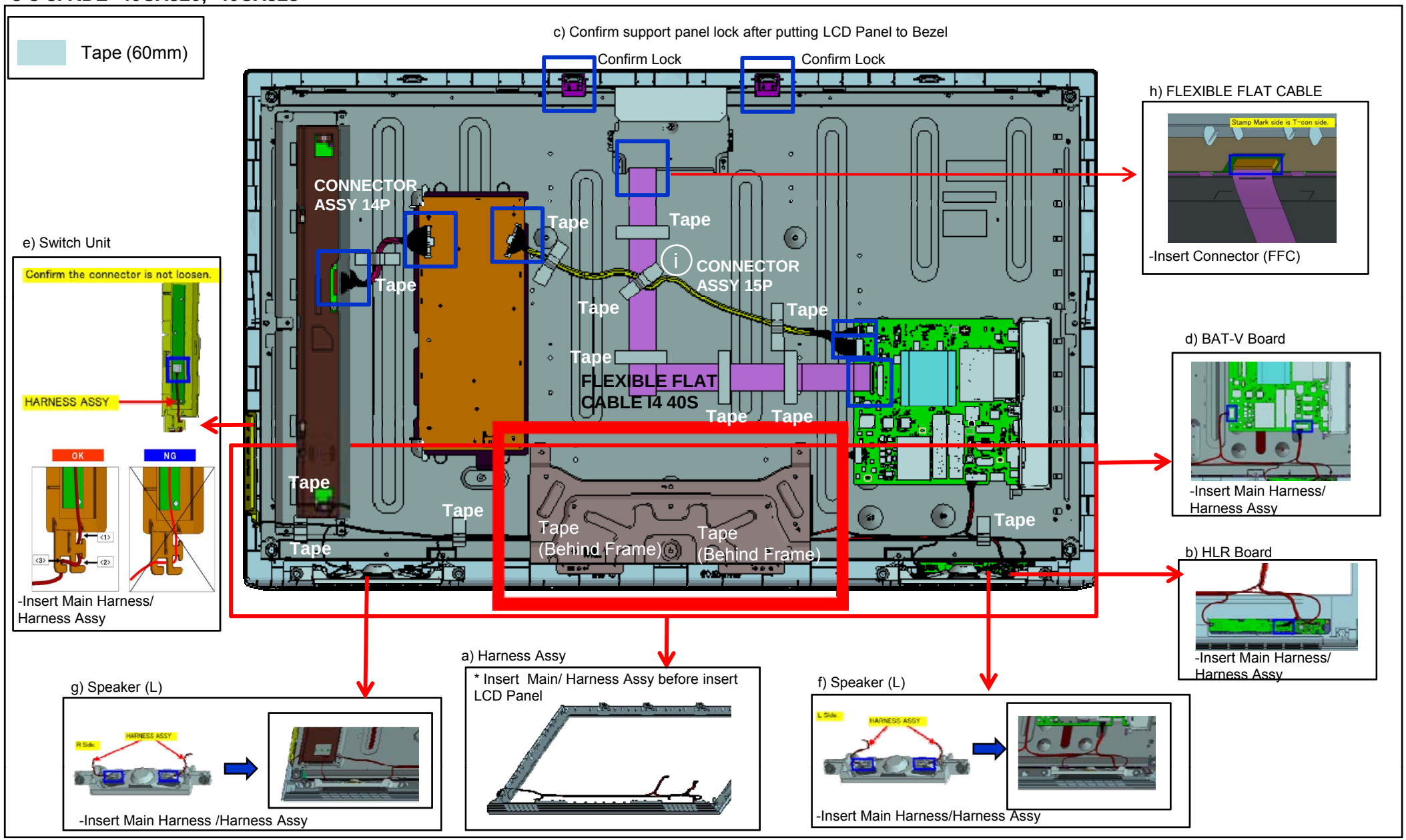


f) Speaker (L)

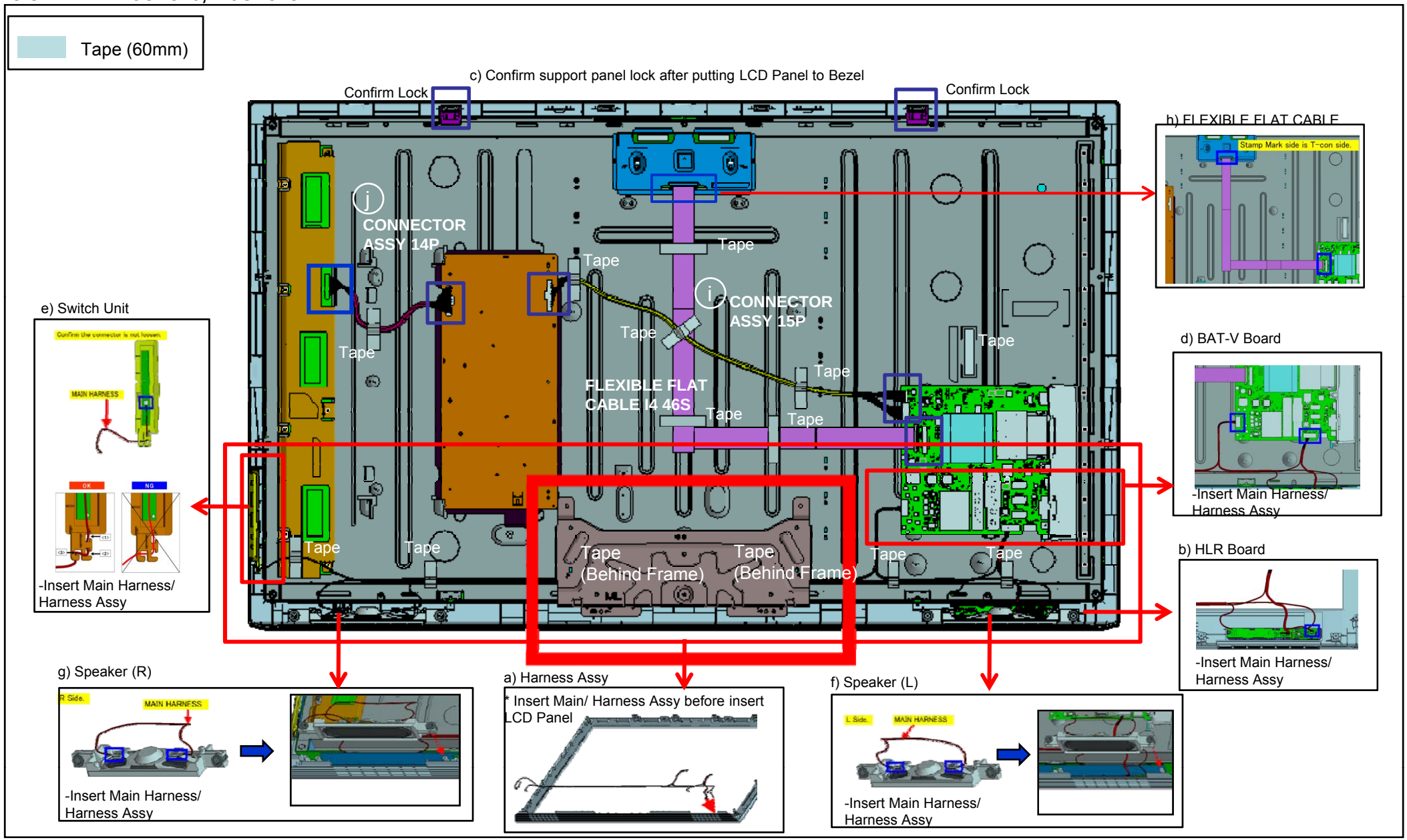


-Insert Main Harness/ Harness Assy

5-3-3. KDL- 40CX520, 40CX523

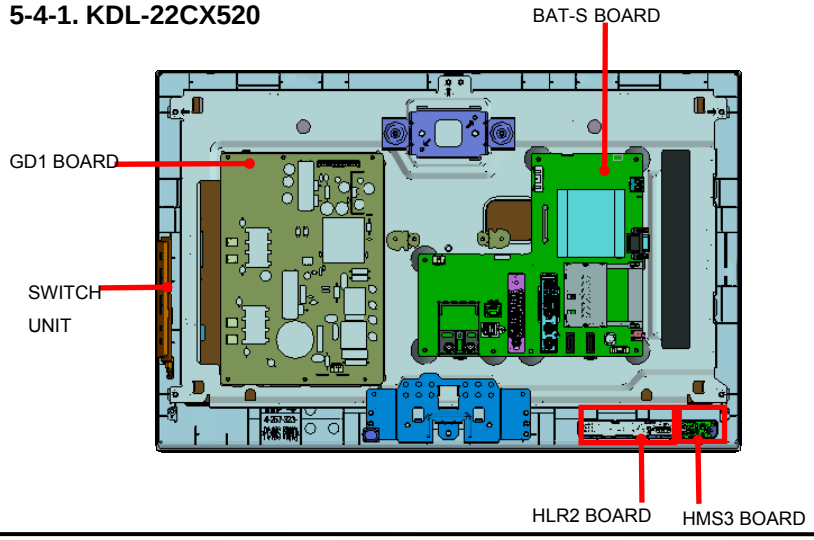


5-3-4. KDL- 46CX520, 46CX523

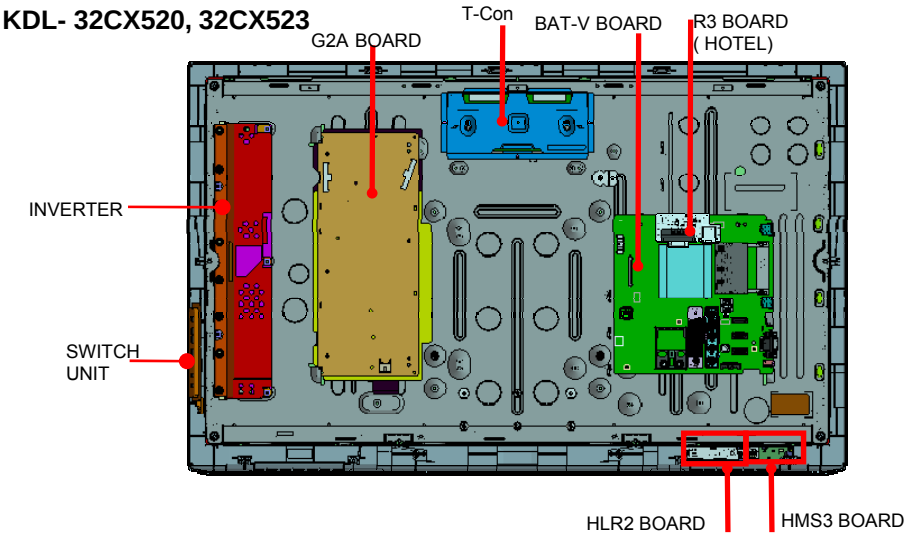


5-4. CIRCUIT BOARD LOCATION

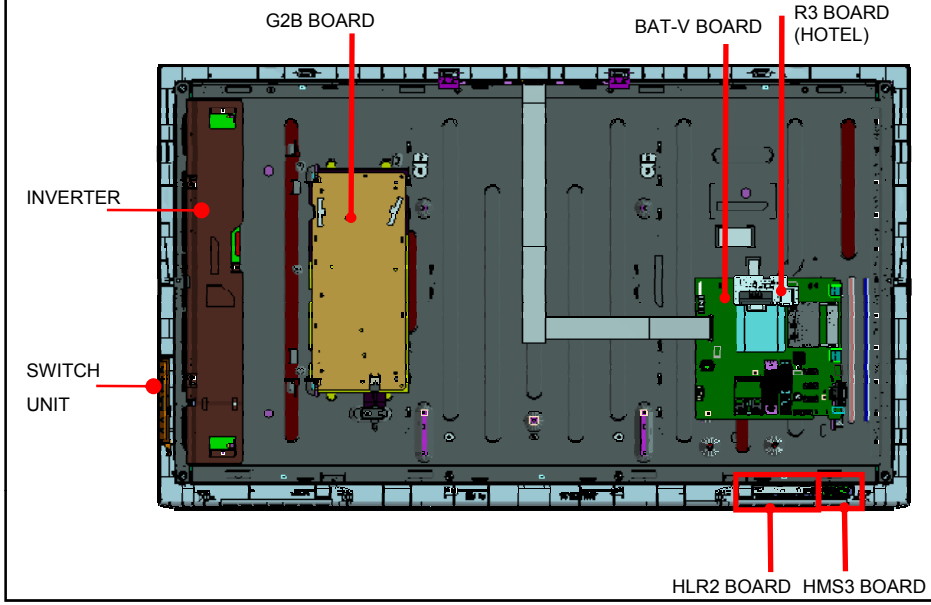
5-4-1. KDL-22CX520



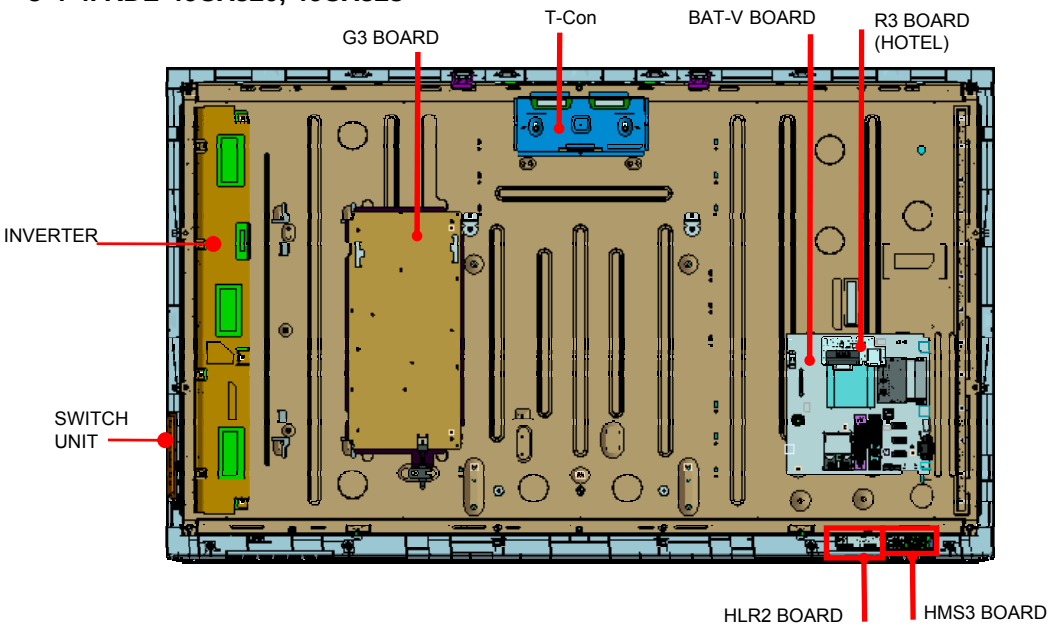
5-4-2. KDL- 32CX520, 32CX523



5-4-3. KDL-40CX520, 40CX523



5-4-4. KDL-46CX520, 46CX523



SECTION 6
DISASSEMBLY, EXPLODED VIEWS AND OTHER PARTS

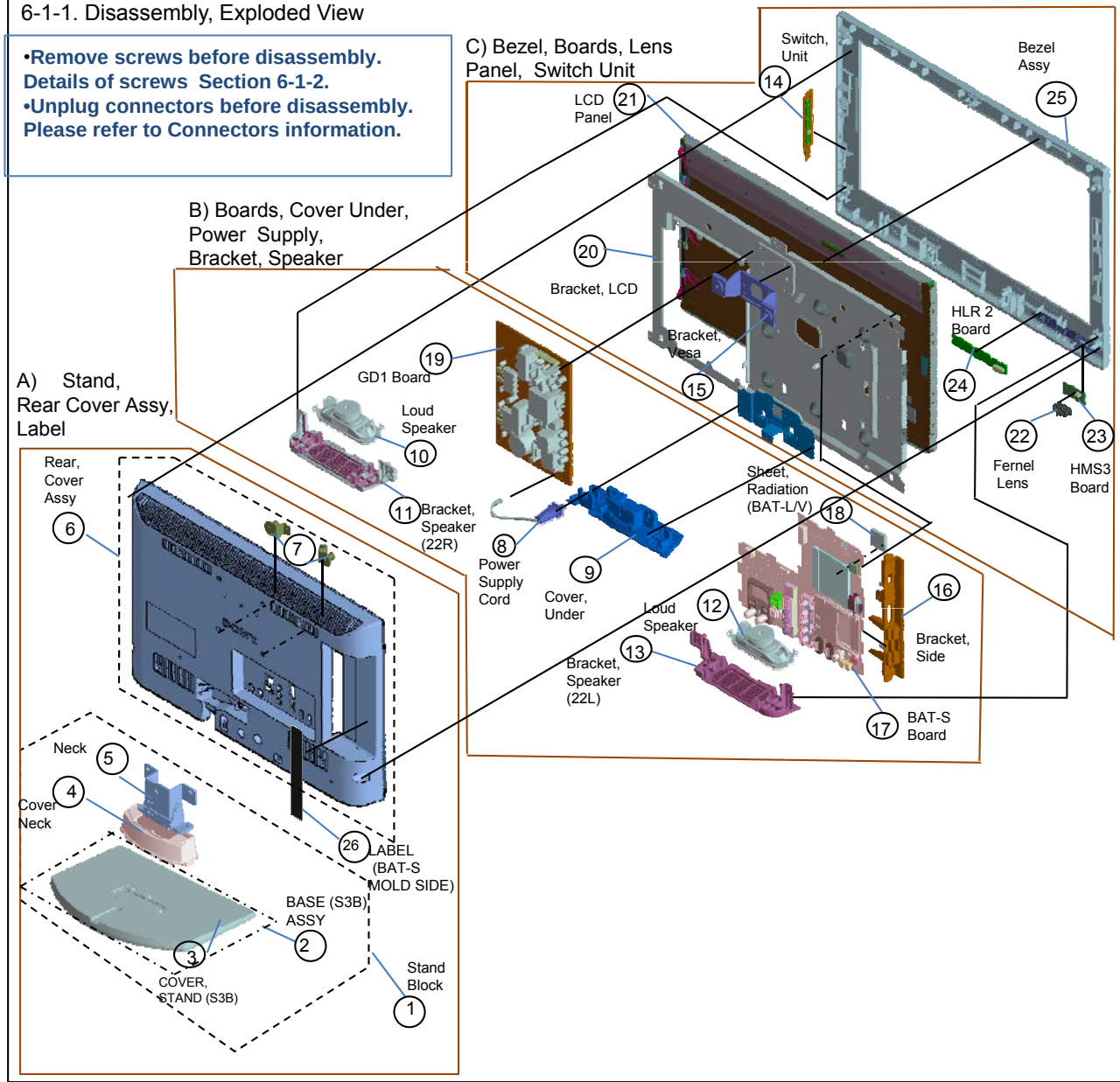
•Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.
• ⚠ and shaded parts are critical for safety. Replace only with part number specified.
• 🔒 Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced.

(*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
• Picture provided in this section might have slight difference from the actual sets.
• Lines that indicate parts are shown in blue in the illustration.
• The reference number besides the part description in the picture indicates the disassembly sequence.

6-1. KDL-22CX520

6-1-1. Disassembly, Exploded View

•Remove screws before disassembly. Details of screws Section 6-1-2.
•Unplug connectors before disassembly. Please refer to Connectors information.

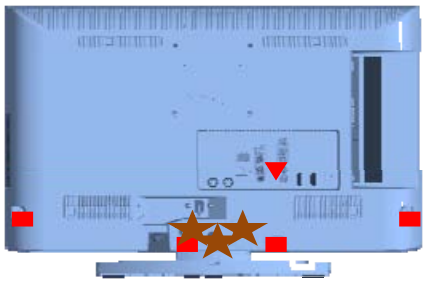


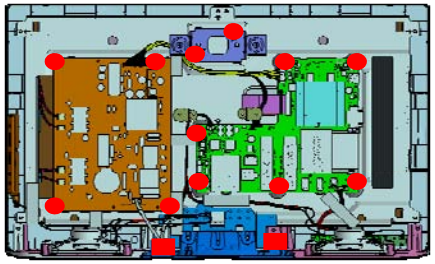
REF.NO.		PART NO.	DESCRIPTION	REMARK
1		NOT STOCKED	STAND, BLOCK	
2		X-2514-989-2	BASE (S3B) ASSY	
3		4-171-859-01	COVER, STAND (S3B)	
3		4-183-981-01	COVER, STAND (S3B)	
4		4-262-304-01	COVER,NECK(SS3)	
5		4-158-353-01	NECK (S3B)	
6		4-274-450-11	REAR COVER ASSY (22)	
7		4-263-076-01	BRACKET, VESA (M4S)	
8	⚠	*1-838-530-11	POWER-SUPPLY CORD (UK PLUG)	
8	⚠	1-838-531-11	POWER-SUPPLY CORD (UK PLUG)	
9		4-257-962-01	COVER,UNDER(22)	
10,12		1-858-341-11	LOUDSPEAKER (4X10CM)	
11		4-257-964-01	BRACKET,SPEAKER(22R)	
13		4-257-963-01	BRACKET,SPEAKER(22L)	
14		1-489-515-11	SWITCH UNIT	
15		* 4-262-683-01	BRACKET VESA (M4C)	
16		4-256-428-01	BRACKET, SIDE (22/24/26)	
17	🔒	A-1806-484-A	BATS_I1_WXG_HK COMPL SERVICE	
18		4-256-443-01	SHEET, RADIATION (BAT-L/V)	
19	⚠	1-474-312-11	STATIC CONVERTER (TV)-GD1-2C	
20		NOT STOCKED	BRACKET, LCD	
21	⚠	1-811-130-12	LCD PANEL	(V216B1-L03)
22		* 1-856-184-11	FRENEL LENS	
23		A-1792-511-A	HMS3 MOUNT	
24		A-1792-877-A	HLR2 MOUNT(B-O)	
25		4-272-138-01	BEZEL ASSY	
26		4-267-117-01	LABEL (BAT-S MOLD SIDE)	

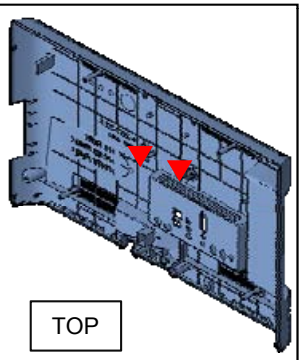
6-1. KDL-22CX520

6-1-2. Screws

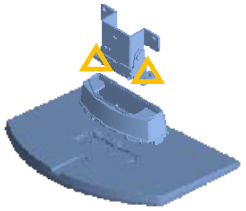
Ref	Part No	Description
■	2-580-640-01	SCREW, +BVTP 4X16 TYPE2 IT-3
▼	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 IT-3
▽	NOT USED FOR THIS MODEL	SCREW +PSW M3X6 W12
●	2-580-628-01	SCREW, +BVTP S3X6 TYPE2
○	NOT USED FOR THIS MODEL	SCREW, +BVTP 3X8 TYPE2 IT-3
▲	2-990-421-41	SCREW, (+PSW) (M3X6)
△	4-159-298-01	SCREW, +PSW M4x10
★	2-580-608-01	SCREW, +PSW M5X16

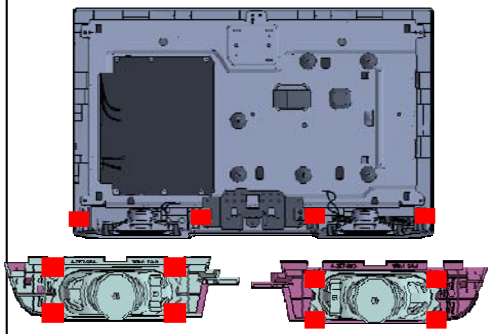


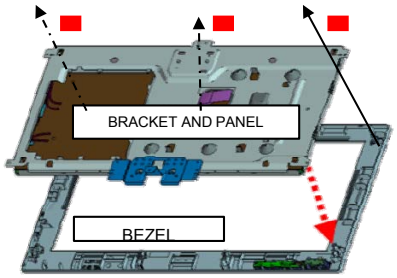


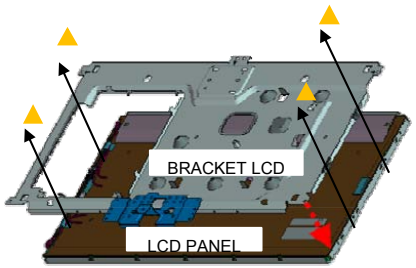


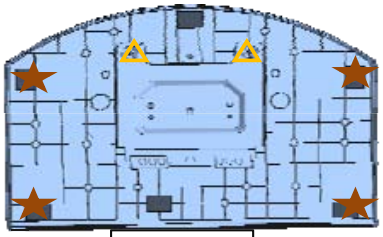
TOP







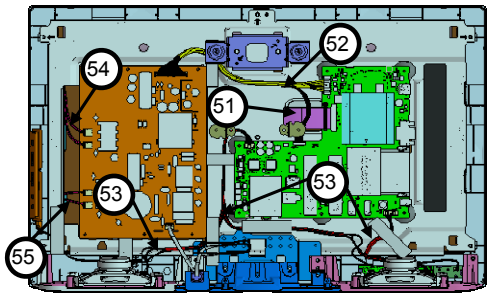




BOTTOM

6-2-3. Connectors

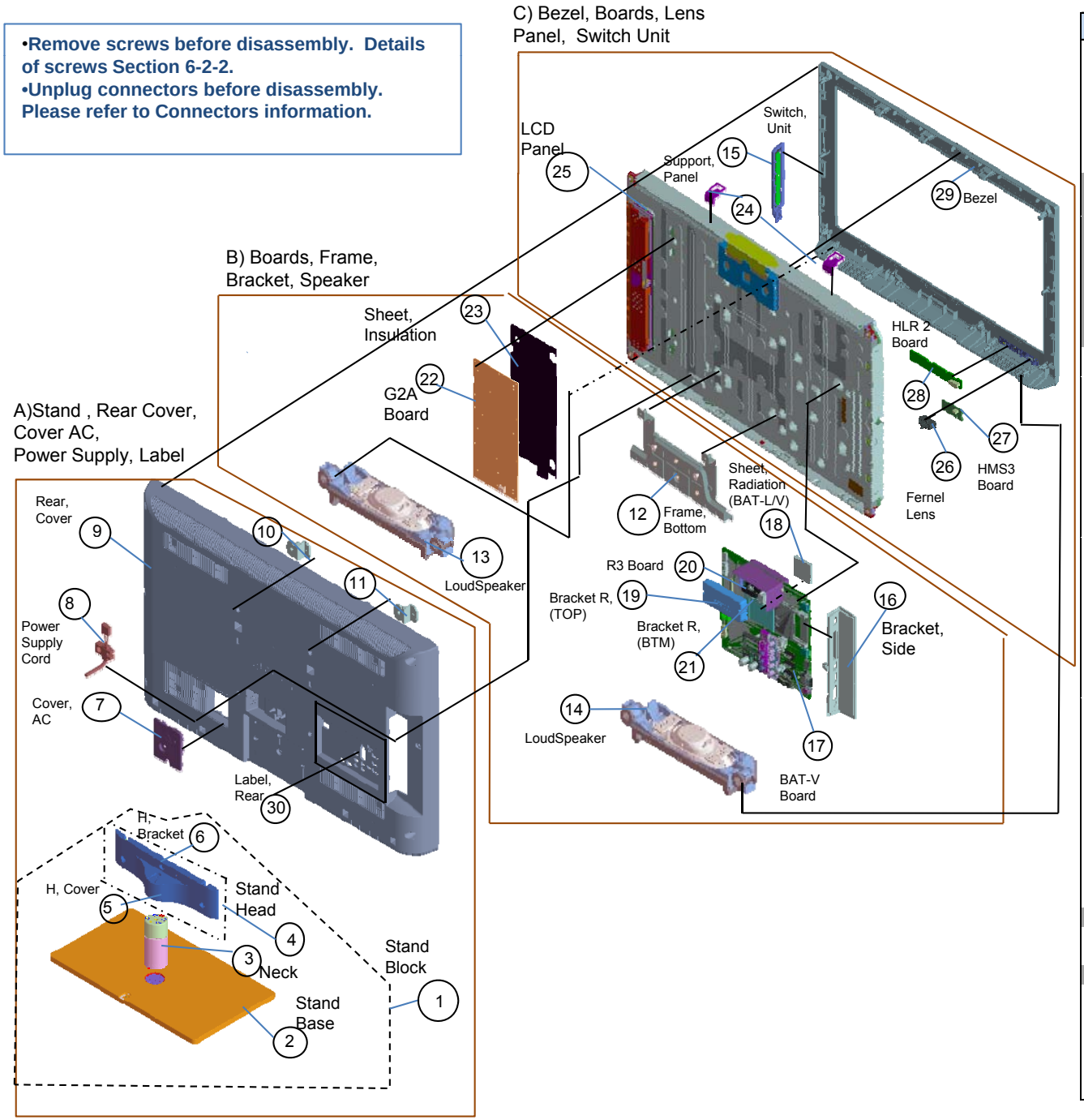
Ref	Part No	Description
51	1-838-834-11	FLEXIBLE FLAT CABLE I4 22WS CN2000 (BAT-S) - PANEL (1)
52	1-910-800-85	CONNECTOR ASSY 15P CN6001 (BAT-S) - CN6002 (BAT-S) - CN6150 (GD1) (1)
53	1-910-800-89	HARNESS ASSY CN9006 (BAT-S) - CN100 (HLR2) - HMS3 - SW / CN4601 (BAT-S) - SP (1)
54	UNSTOCKED	CONNECTORS (TO CCFL)
55	UNSTOCKED	CONNECTORS (TO CCFL)



6-2. KDL-32CX520, KDL- 32CX523

6-2-1. Disassembly, Exploded View

•Remove screws before disassembly. Details of screws Section 6-2-2.
•Unplug connectors before disassembly. Please refer to Connectors information.

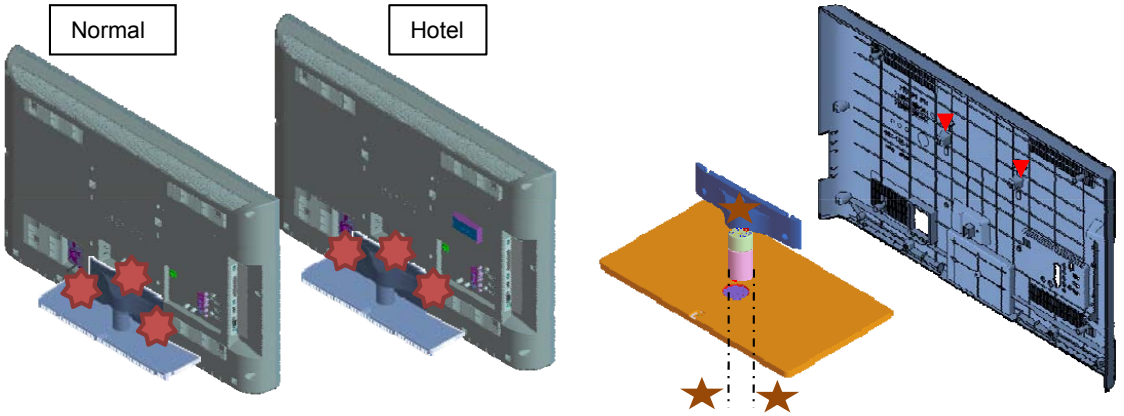


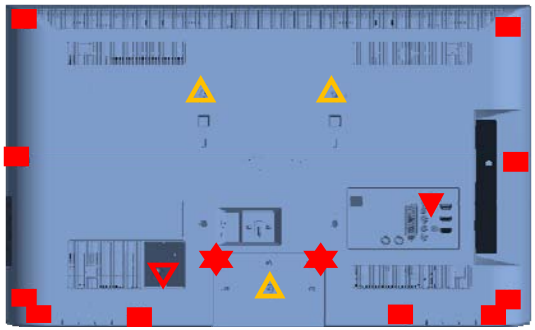
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	NOT STOCKED	STAND, BLOCK	
2	4-267-568-01	STAND, BASE(M3)	
3	4-259-178-01	NECK (M3)	
4	4-267-494-01	STAND, HEAD(M3)	
5	NOT STOCKED	H,COVER(M3)	
6	NOT STOCKED	HEAD BRACKET (M3)	
7	4-259-168-01	COVER, AC(M)	
8	1-838-334-12	POWER-SUPPLY CORD (WITH CONN.) (32CX520(Hong Kong), 32CX523(Sogul, Saudi Arabia, Nigeria))	
8	1-838-279-11	POWER-SUPPLY CORD (WITH CONN.) (Thailand)	
8	1-838-796-12	POWER-SUPPLY CORD (WITH CONN.) (32CX520 (Sogul,Singapore, Indonesia,Vietnam, Phillipines, India, Malaysia, South Africa, Iran, Pakistan)	
8	1-838-278-11	POWER-SUPPLY CORD (WITH CONN.) (32CX520(Australia, New Zealand))	
8	1-838-273-11	POWER-SUPPLY CORD (WITH CONN.) (32CX520(Taiwan)	
9	4-273-069-11	REAR COVER (32 ATL) (NORMAL)(32CX520(HongKong, Taiwan)	
9	4-273-069-51	REAR COVER (32 ATL)(HOTEL) (32CX520(HongKong, Taiwan)	
9	4-273-069-01	REAR COVER (32 ATL) (NORMAL) (32CX520(SOGUL, SINGAPORE, INDONESIA, VIETNAM, PHILLIPINES, INDIA, THAILAND, MALAYSIA, SOUTH AFRICA, AUSTRALIA, NEW ZEALAND), (IRAN,PAKISTAN),32CX523(SOGUL, SAUDI ARABIA, NIGERIA))	
9	4-273-069-31	REAR COVER (32 ATL)(HOTEL) (32CX520(SOGUL, SINGAPORE, INDONESIA, VIETNAM, PHILLIPINES, INDIA, THAILAND, MALAYSIA, SOUTH AFRICA, AUSTRALIA, NEW ZEALAND),32CX523(SOGUL,SAUDI ARABIA,NIGERIA))	
10,11	NOT STOCKED	FRAME, VESA (M6)	
12	NOT STOCKED	FRAME, BOTTOM	
13,14	1-858-589-11	LOUDSPEAKER	
15	1-489-515-31	SWITCH UNIT	
16	4-256-427-01	BRACKET, SIDE (BAT-V CCFL)(EXCEPT 32CX520 (TAIWAN)	
16	4-256-427-61	BRACKET, SIDE (BAT-V CCFL)(32CX520(TAIWAN))	
17	A-1811-356-B	BATV_I4_F_E15_DX COMPL SERVICE (32CX523(SOGUL, SAUDI ARABIA, NIGERIA))	
17	A-1808-455-B	BATV_I4_F_HK COMPL SERVICE (32CX520(HongKong))	
17	A-1803-659-B	BATV_I4_F_PA COMPL SERVICE (32CX520(SOGUL, SINGAPORE, INDONESIA, VIETNAM, PHILLIPINES, INDIA, THAILAND, MALAYSIA, SOUTH AFRICA, AUSTRALIA, NEW ZEALAND),IRAN,PAKISTAN))	
17	A-1809-349-B	BATV_I4_F_TW COMPL SERVICE(32CX520(TAIWAN))	
18	4-256-443-01	SHEET, RADIATION (BAT-L/V)	
19	4-269-368-01	BRACKET, R (TOP) (HOTEL)(Except IRAN,PAKISTAN)	
20	A-1804-894-A	R3 MOUNT (HOTEL) (Except IRAN, PAKISTAN)	
21	4-269-369-01	BRACKET, R (BTM)(HOTEL)(Except IRAN, PAKISTAN)	
22	1-474-285-11	STATIC CONVERTER (TV)-G2A	
23	NOT STOCKED	SHEET, INSULATION(G2)	
24	4-157-992-11	SUPPORT, PANEL	
25	1-811-330-11	LCD PANEL(S-LCD)	LTY[Z]320HN02-001
26	* 1-856-184-11	FRENEL LENS	
27	A-1792-511-A	HMS3 MOUNT	
28	A-1792-877-A	HLR2 MOUNT(B-O)	
29	4-273-027-01	BEZEL(32 ATL)	
30	4-270-564-01	LABEL(BAT-V REAR)(32CX520(TAIWAN))	

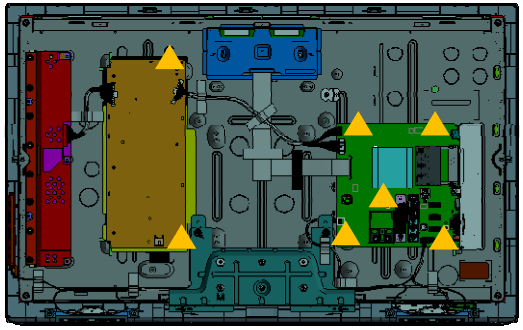
6-2. KDL-32CX520, KDL- 32CX523

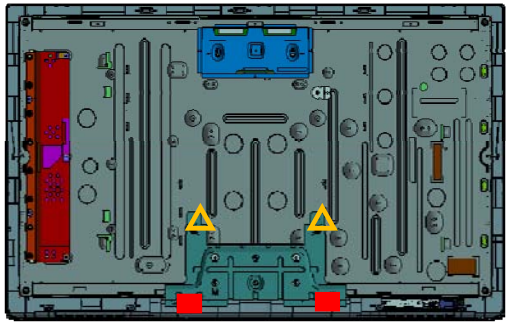
6-2-2. Screws

Ref	Part No	Description
■	2-580-640-01	SCREW, +BVTP 4X16 TYPE2 IT-3
▼	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 IT-3
▽	4-256-393-01	SCREW +PSW M3X6 W12
●	NOT USED FOR THIS MODEL	SCREW, +BVST (3X6)
○	NOT USED FOR THIS MODEL	SCREW, +BVTP 3X8 TYPE2 IT-3
▲	2-990-421-41	SCREW (+PSW) (M3X6)
△	4-159-298-01	SCREW, +PSW M4x10
★	4-257-907-01	JOINT STAND
★	2-580-608-01 SCREW,	+PSW M5X16
★	4-259-541-01	USER SCREW ST



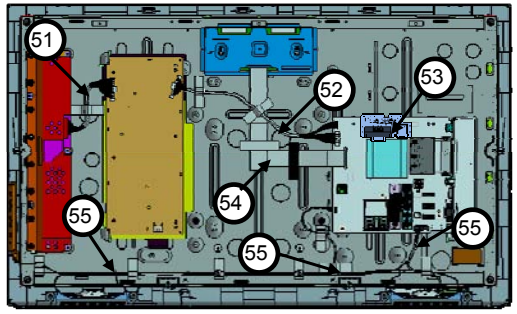




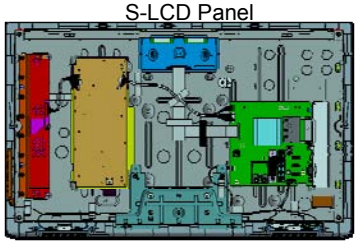


6-2-3. Connectors

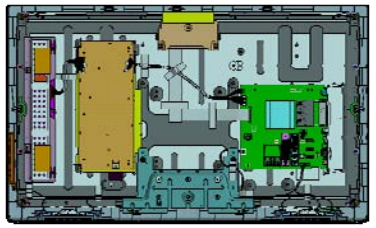
Ref	Part No	Description
51	* 1-910-800-98	CONNECTOR ASSY 14P (CN6402(G2A)-INV(1)
52	* 1-910-801-00	CONNECTOR ASSSY 15P (CN6001(BAT-V)-CN6002(BAT-V)-CN6401(G2A)(1)
53	* 1-910-802-00	CONNECTOR ASSY 6P(EXCEPT IRAN, PAKISTAN) CN9005(BAT-V)-CN001(R3/RU)(1)
54	* 1-838-842-11	FLEXIBLE FLAT CABLE I4 32S CN2001(BAT-V)-PANEL(1)
55	* 1-910-801-08	MAIN HARNESS CN9006(BAT-V)-CN100(HLR2)-HMS3-SW/CN4601(BAT-V)-SP(1)



S-LCD Panel



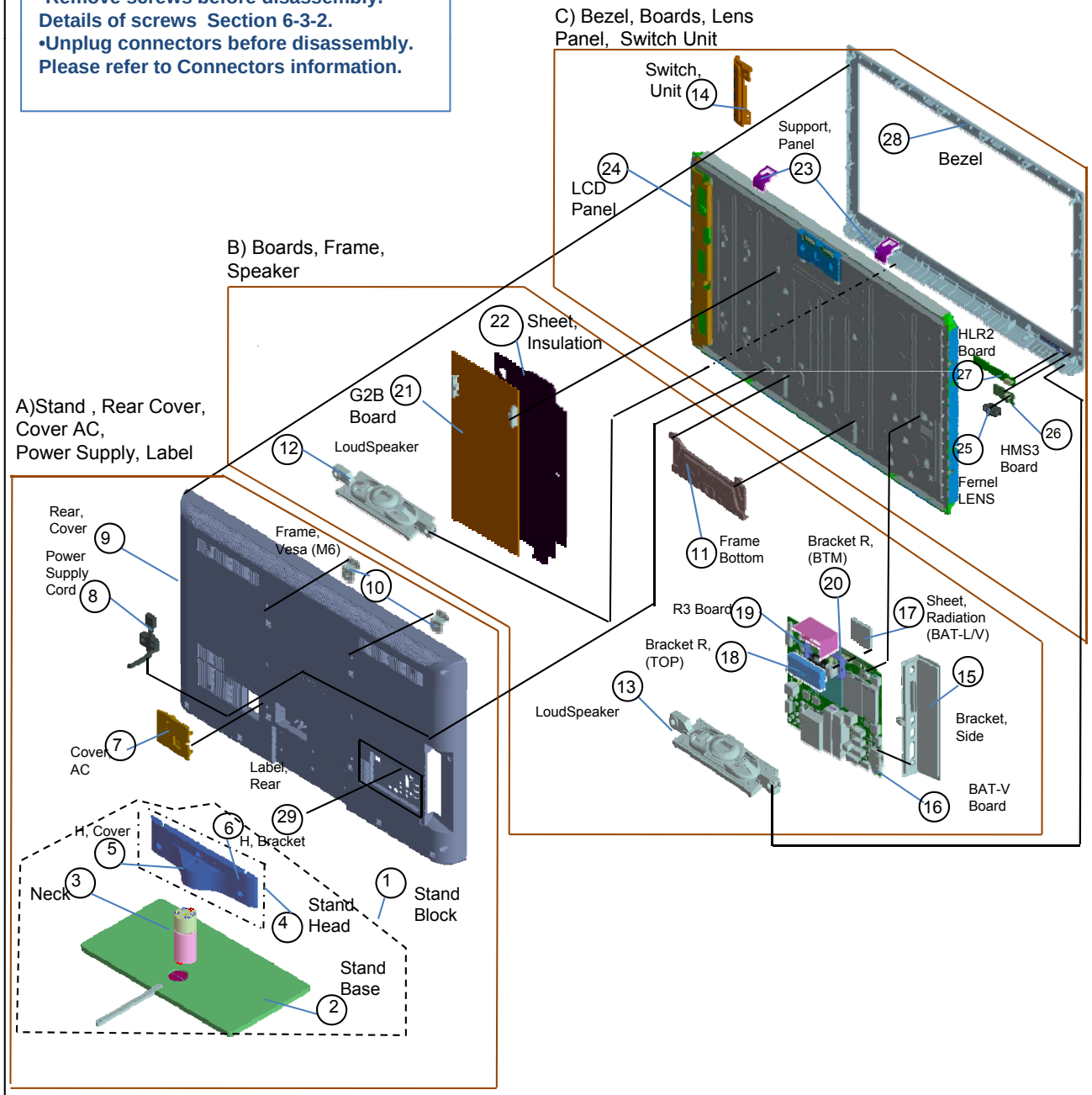
CMI Panel



6-3. KDL-40CX520, KDL- 40CX523

6-3-1. Disassembly, Exploded View

•Remove screws before disassembly.
Details of screws Section 6-3-2.
•Unplug connectors before disassembly.
Please refer to Connectors information.

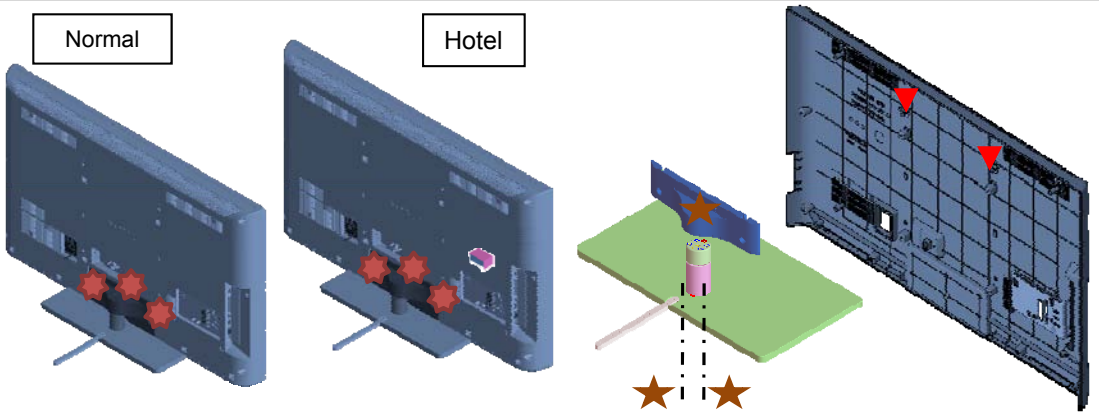


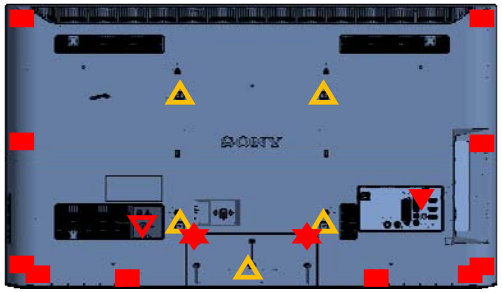
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	NOT STOCKED	STAND BLOCK(ML3)	
2	4-267-573-01	STAND, BASE(ML3)	
3	4-259-181-01	NECK(ML3)	
4	4-267-501-01	STAND, HEAD(ML3)	
5	NOT STOCKED	H,COVER (ML3)	
6	NOT STOCKED	H, BRACKET (ML3)	
7	4-259-168-01	COVER, AC(M)	
8	1-838-334-12	POWER-SUPPLY CORD (WITH CONN.) (40CX520(Hong Kong),40CX523(Sogul, Saudi Arabia, Nigeria))	
8	1-838-279-11	POWER-SUPPLY CORD (WITH CONN.)((40CX520(Thailand))	
8	1-838-796-11	POWER-SUPPLY CORD (WITH CONN.)((40CX520(Sogul,Singapore, Indonesia,Vietnam, Phillipines, India, Malaysia, South Africa, Pakistan))	
8	1-838-278-11	POWER-SUPPLY CORD (WITH CONN.)(Australia, New Zealand))	
8	1-838-273-11	POWER-SUPPLY CORD (WITH CONN.)(40CX520(Taiwan))	
9	4-273-070-11	REAR COVER (40 ATL) (NORMAL)((40CX520(Hong Kong), (Taiwan))	
9	4-273-070-41	REAR COVER (40 ATL) (HOTEL)((40CX520(Hong Kong), (Taiwan))	
9	4-273-070-01	REAR COVER (40 ATL) (NORMAL) 40CX520(Sogul,Singapore,Indonesia,Vietnam, Phillipines, India, Thailand, Malaysia, South Africa, Australia, New Zealand),(Pakistan)), 40CX523(Sogul, Saudi Arabia, Nigeria)	
9	4-273-070-21	REAR COVER (40 ATL) (HOTEL) 40CX520(Sogul,Singapore,Indonesia,Vietnam, Phillipines, India, Thailand, Malaysia, South Africa, Australia, New Zealand)),40CX523(Sogul, Saudi Arabia, Nigeria)	
10	NOT STOCKED	FRAME, VESA (M6)	
11	NOT STOCKED	FRAME BOTTOM (ML)	
12,13	1-858-585-11	LOUDSPEAKER	
14	1-489-515-31	SWITCH UNIT	
15	4-256-427-01	BRACKET, SIDE (BAT-V CCFL)(Except Taiwan)	
15	4-256-427-61	BRACKET, SIDE (BAT-V CCFL)((40CX520(Taiwan))	
16	A-1810-770-B	BATV_I4_F_E15_DX COMPL SERVICE (40CX523(Sogul, Saudi Arabia, Nigeria))	
16	A-1808-455-B	BATV_I4_F_HK COMPL SERVICE (40CX520(Hong Kong)	
16	A-1803-659-B	BATV_I4_F_PA COMPL SERVICE 40CX520(Sogul,Singapore,Indonesia,Vietnam, Phillipines, India, Thailand, Malaysia, South Africa, Australia, New Zealand),(Pakistan)	
16	A-1809-349-B	BATV_I4_F_TW COMPL SERVICE((40CX520(TAIWAN))	
17	4-256-443-01	SHEET, RADIATION (BAT-L/V)	
18	4-269-368-01	BRACKET, R (TOP) (HOTEL) (EXCEPT PAKISTAN)	
19	A-1804-894-A	R3 MOUNT (HOTEL) (EXCEPT PAKISTAN)	
20	4-269-369-01	BRACKET, R (BTM) ((HOTEL) (EXCEPT PAKISTAN)	
21	1-474-286-11	STATIC CONVERTER (TV)-G2B	
22	NOT STOCKED	SHEET, INSULATION(G2)	
23	4-157-992-11	SUPPORT, PANEL	
24	1-811-329-11	LCD PANEL LTU400HM02-A01	
25	* 1-856-184-11	FRENEL LENS	
26	A-1792-511-A	HMS3 MOUNT	
27	A-1792-877-A	HLR2 MOUNT(B-O)	
28	4-273-028-01	BEZEL(40 ATL)	
29	4-270-564-01	LABEL(BAT-V REAR)(40CX520(Taiwan))	

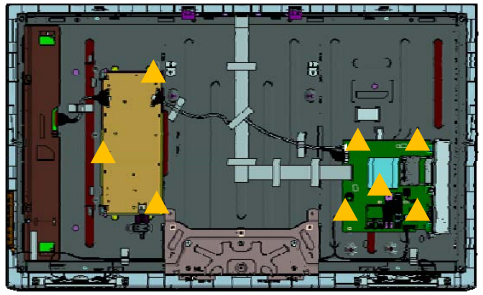
6-3. KDL-40CX520, KDL- 40CX523

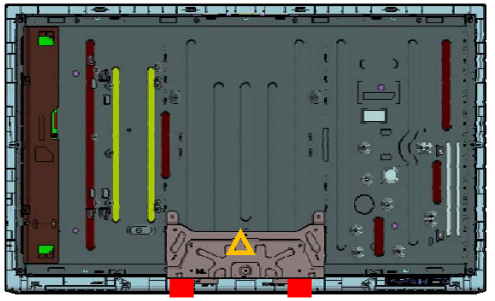
6-3-2. Screws

Ref	Part No	Description
■	2-580-640-01	SCREW, +BVTP 4X16 TYPE2 IT-3
▼	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 IT-3
▽	4-256-393-01	SCREW +PSW M3X6 W12
●	NOT USED FOR THIS MODEL	SCREW, +BVST (3X6)
○	NOT USED FOR THIS MODEL	SCREW, +BVTP 3X8 TYPE2 IT-3
▲	2-990-421-41	SCREW (+PSW) (M3X6)
△	4-159-298-01	SCREW, +PSW M4x10
★	4-257-907-01	JOINT STAND
★	2-580-608-01	SCREW, +PSW M5X16
★	4-259-541-01	USER SCREW ST



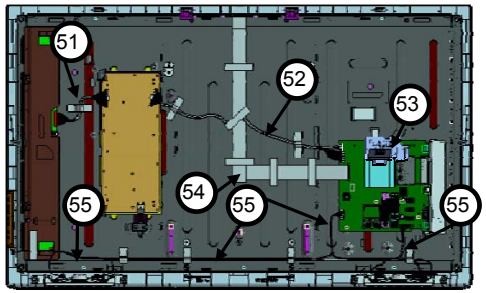




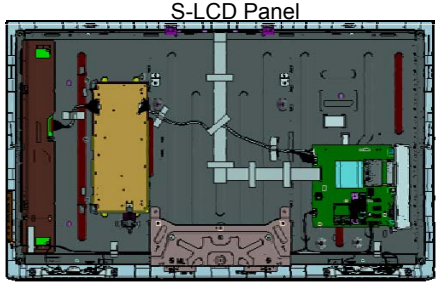


6-3-3. Connectors

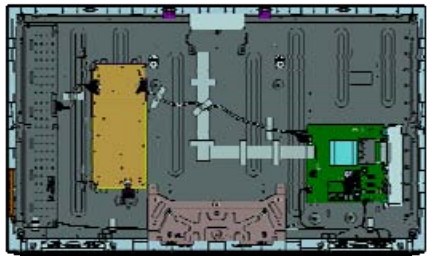
Ref	Part No	Description
51	*1-910-801-55	CONNECTOR ASSY 14P CN6402(G2B)-INV(1)
52	*1-910-801-56	CONNECTOR ASSY 15P CN6001(BAT-V)-CN6002(BAT-V)-CN6401(G2B)(1)
53	* 1-910-802-00	CONNECTOR ASSY 6P(EXCEPT PAKISTAN) CN9005(BAT-V)-CN001(R3/RU)(1)
54	* 1-838-843-11	FLEXIBLE FLAT CABLE I4 40S CN2001(BAT-V)-PANEL(1)
55	* 1-910-801-64	HARNESS ASSY CN9006(BAT-V)-CN100(HLR2)-HMS3-SW/CN4601(BAT-V)-SP(1)



S-LCD Panel



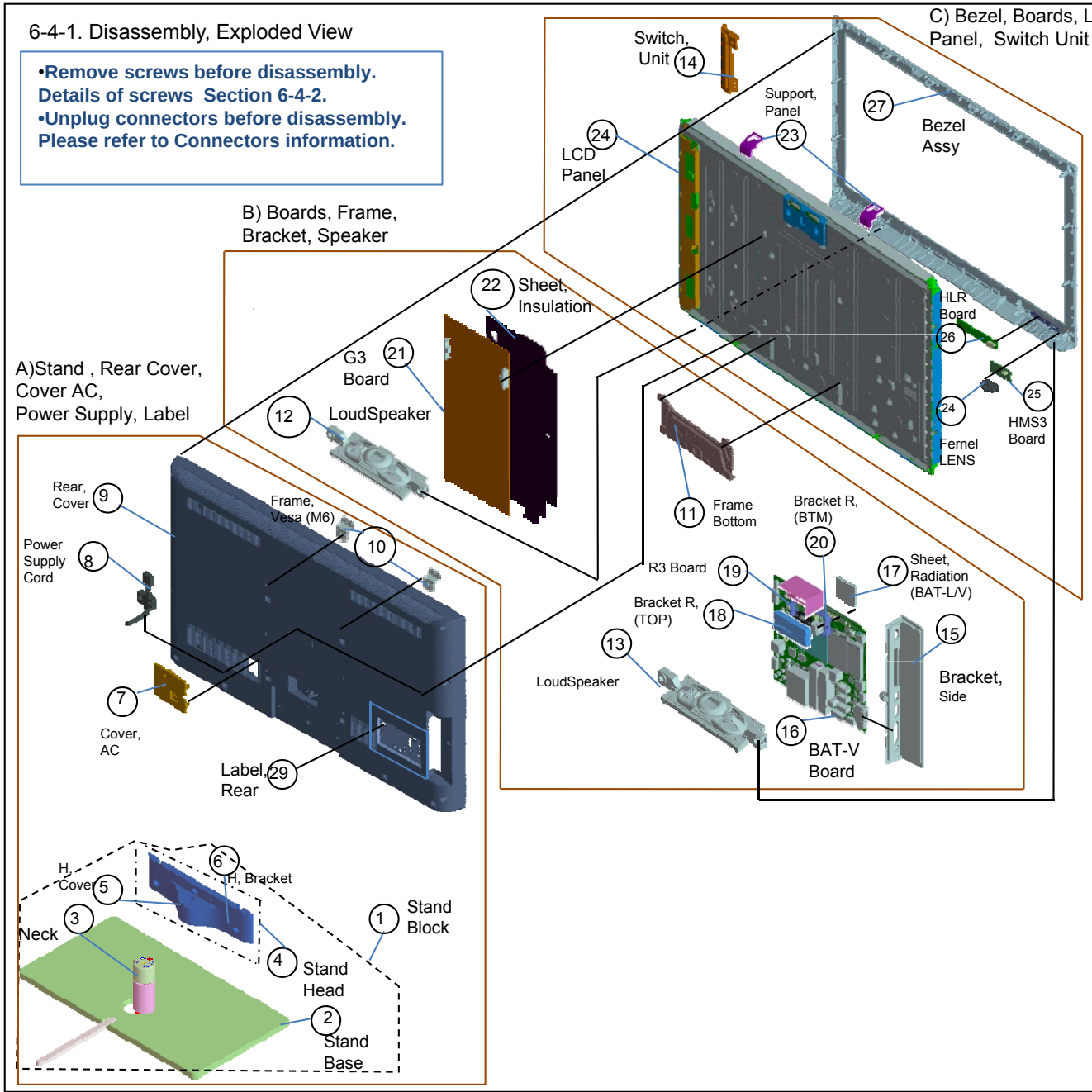
CMI Panel



6-4. KDL-46CX520, KDL- 46CX523

6-4-1. Disassembly, Exploded View

•Remove screws before disassembly.
Details of screws Section 6-4-2.
•Unplug connectors before disassembly.
Please refer to Connectors information.

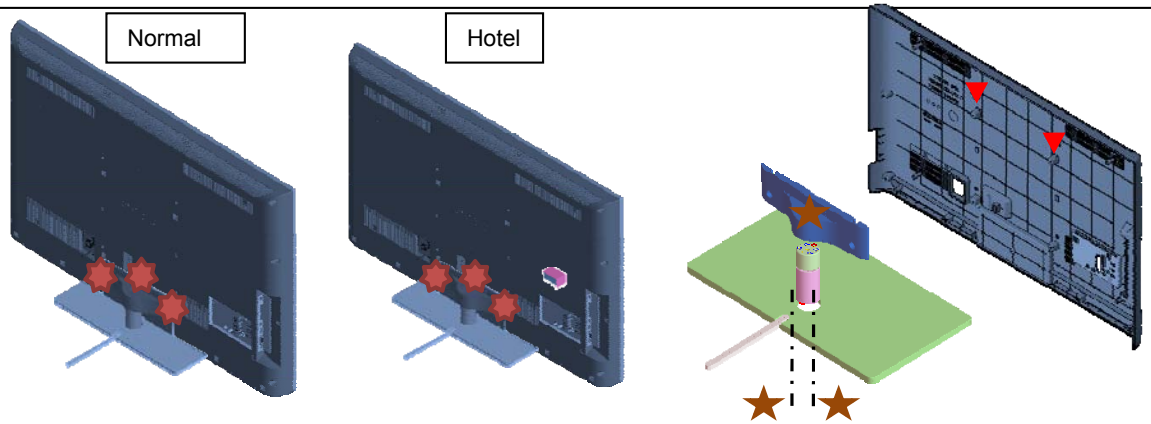


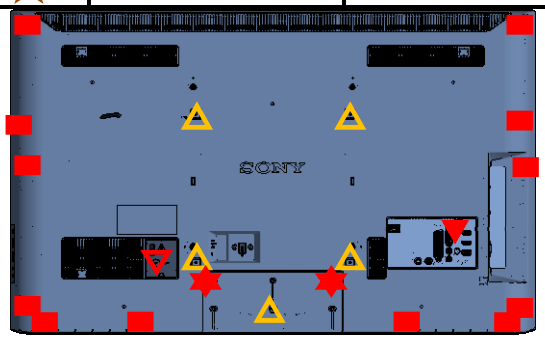
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	NOT STOCKED	STAND BLOCK(ML3)	
2	4-267-573-02	STAND, BASE(ML3)	
3	4-259-184-01	NECK(L3)	
4	4-267-501-01	STAND, HEAD(ML3)	
5	NOT STOCKED	H,COVER	
6	NOT STOCKED	H, BRACKET	
7	4-259-168-01	COVER, AC(M)	
8	⚠ 1-838-334-12	POWER-SUPPLY CORD (WITH CONN.) (46CX523(Sogul, Saudi, Nigeria))	
8	⚠ 1-838-279-11	POWER-SUPPLY CORD (WITH CONN.)((46CX520(Thailand))	
8	⚠ 1-838-796-12	POWER-SUPPLY CORD (WITH CONN.) ((46CX520(Sogul,Singapore,Indonesia,Vietnam, Phillipines, India, Malaysia, South Africa, Iran, Pakistan))	
9	4-273-071-01	REAR COVER ASSY(46 ATL) (NORMAL)	
	4-273-071-21	REAR COVER ASSY(46 ATL) (HOTEL) (EXCEPT IRAN, PAKISTAN)	
10	NOT STOCKED	FRAME, VESA (M6)	
11	NOT STOCKED	FRAME BOTTOM (ML)	
12,13	1-858-585-11	LOUDSPEAKER	
14	1-489-515-11	SWITCH UNIT	
15	4-256-427-01	BRACKET, SIDE (BAT-V CCFL)	
16	A-1803-659-B	BATV_I4_F_PA COMPL SERVICE 46CX520(Sogul,Singapore,Indonesia,Vietnam, Phillipines, India, Thailand, Malaysia, South Africa, IRAN, Pakistan)	
16	A-1810-841-B	BATV_I4_F_E15_DX COMPL SERVICE ((46CX523(SOGUL, SAUDI ARABIA, NIGERIA))	
17	4-256-443-01	SHEET, RADIATION (BAT-L/V)	
18	4-269-368-01	BRACKET, R (TOP) (HOTEL) (EXCEPT IRAN, PAKISTAN)	
19	A-1804-894-A	R3 MOUNT (HOTEL) (EXCEPT IRAN, PAKISTAN)	
20	4-269-369-01	BRACKET, R (BTM) ((HOTEL) (EXCEPT IRAN, PAKISTAN)	
21	⚠ 1-474-296-11	STATIC CONVERTER (TV)-G3	
22	NOT STOCKED	SHEET, INSULATION(G2)	
23	4-157-992-11	SUPPORT, PANEL	
24	⚠ 1-811-332-11	LCD PANEL (S-LCD) LTY[Z]460HN01-A01	
25	* 1-856-184-11	FRENEL LENS	
26	A-1792-511-A	HMS3 MOUNT	
27	A-1792-877-A	HLR2 MOUNT(B-O)	
28	4-273-029-01	BEZEL(46 ATL)	

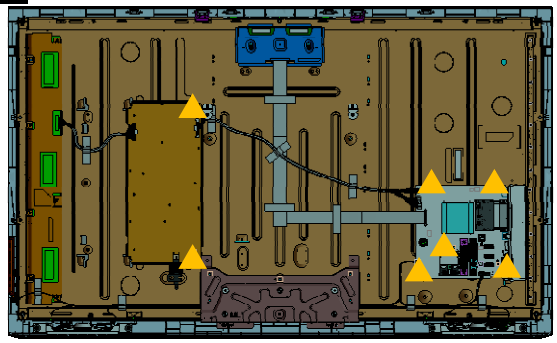
6-4. KDL-46CX520, KDL- 46CX523

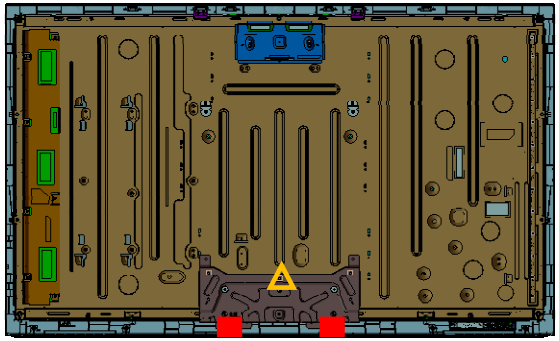
6-4-2. Screws

Ref	Part No	Description
■	2-580-640-01	SCREW, +BVTP 4X16 TYPE2 IT-3
▼	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 IT-3
▽	4-256-393-01	SCREW +PSW M3X6 W12
●	Not used for this model	SCREW, +BVST (3X6)
○	Not used for this model	SCREW, +BVTP 3X8 TYPE2 IT-3
▲	2-990-421-41	SCREW, (+PSW) (M3X6)
△	4-159-298-01	SCREW, +PSW M4x10
★	4-257-907-01	JOINT STAND
✹	2-580-608-01	SCREW, +PSW M5X16
★	4-259-541-01	USER SCREW ST



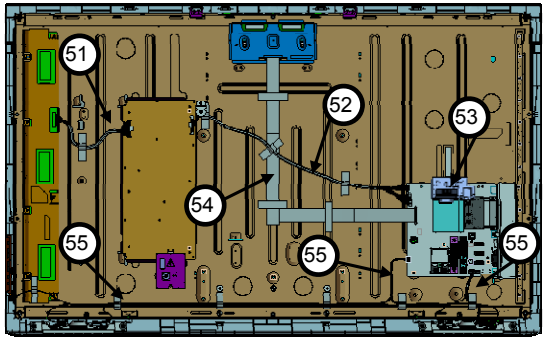






6-4-3. Connectors

Ref	Part No	Description
51	*1-910-801-65	CONNECTOR ASSY 14P CN6402(G3)-INV(1)
52	*1-910-801-66	CONNECTOR ASSY 15P CN6001(BAT-V)-CN6002(BAT-V)-CN6401(G2B)(1)
53	* 1-910-802-00	CONNECTOR ASSY 6P(EXCEPT IRAN/PAKISTAN) CN9005(BAT-V)-CN001(R3)(1)
54	* 1-838-845-11	FLEXIBLE FLAT CABLE I4 46S CN2001(BAT-V)-PANEL(1)
55	* 1-910-801-75	MAIN HARNESS/HARNESS ASSY CN9006(BAT-V)-CN100(HLR2)-HMS3-SW/CN4601(BAT-V)-SP(1)



6-6. OTHER PARTS

6-6-1. KDL-22CX520

REF NO.	PART NO.	DESCRIPTION
		<ACCESSORIES AND PACKING>
		**********
	*4-267-920-01	CARTON, INDIVIDUAL
	4-266-094-11	MANUAL, INSTRUCTION
	4-260-904-01	CUSHION, UPPER (ATL22)
	4-260-905-01	CUSHION, LOWER (ATL22)
		**********
		<REMOTE COMMANDER>
		**********
	1-489-456-11	REMOTE COMMANDER (RM-GD020)
		**********
		<MISCELLANEOUS>
		**********
	7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT

6-6-2. KDL-32CX520, 32CX523

REF NO.	PART NO.	DESCRIPTION
		<ACCESSORIES AND PACKING>
		**********
	1-821-926-11	PLUG CONVERSION ADAPTOR(SOUTH AFRICA)
	1-822-631-11	PLUG CONVERSION ADAPTOR(INDIA)
*	1-569-008-22	ADAPTOR, CONVERSION 2P 32CX520(SOGUL , Singapore, Indonesia, Vietnam, Phillipines)
*	4-260-908-01	CUSHION, LOWER (ATL32)
*	4-260-907-01	CUSHION, UPPER (ATL32)
	4-266-094-11	MANUAL, INSTRUCTION(32CX520(Hong Kong))
	4-268-464-11	MANUAL, INSTRUCTION(32CX520(TAIWAN))
	4-274-108-11	MANUAL, INSTRUCTION (32CX520(IRAN))
	4-268-265-22	MANUAL, INSTRUCTION (32CX520(SOGUL, SINGAPORE, INDONESIA, VIETNAM, PHILLIPINES, MALAYSIA), 32CX523(SOGUL, SAUDI ARABIA, NIGERIA))
	4-268-265-12	MANUAL, INSTRUCTION (32CX520(SOGUL, SINGAPORE, INDONESIA, VIETNAM, PHILLIPINES, INDIA, THAILAND, MALAYSIA, SOUTH AFRICA, AUSTRALIA, NEW ZEALAND,PAKISTAN), 32CX523(SOGUL, SAUDI ARABIA, NIGERIA))
	4-268-265-31	MANUAL, INSTRUCTION (32CX520(Thailand)
		**********
		<REMOTE COMMANDER>
		**********
	1-489-457-11	REMOTE COMMANDER (RM-CD013)(Taiwan)
	1-489-456-11	REMOTE COMMANDER (RM-GD020)(Except Taiwan)
		**********
		<MISCELLANEOUS>
		**********
	X-2549-819-1	BAG, SCREW ASSY(M)
	4-188-302-11	HEX WRENCH
*	4-267-921-01	CARTON, INDIVIDUAL((EXCEPT 32CX520 (IRAN))
*	4-267-921-21	CARTON, INDIVIDUAL(32CX520(IRAN))
	X-2580-498-1	BAG ASSY, FALL LOCK BELT M4X10(32CX520(TAIWAN))
	4-100-136-01	SHEET (CORE), C
	2-580-663-02	SCREW, WOOD 3.8X20(32CX520(TAIWAN))
	7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT (EXCEPT IRAN,PAKISTAN)
*	4-275-363-11	SUPPLEMENT(STAND INSTALLATION)

6-6. OTHER PARTS

6-6-3. KDL-40CX520, 40CX523

REF NO.	PART NO.	DESCRIPTION
		<ACCESSORIES AND PACKING>
		**********
	1-569-008-22	ADAPTOR, CONVERSION 2P
		40CX520(SOGUL , Singapore, Indonesia,
		Vietnam, Phillipines)
*	4-260-911-01	CUSHION, LOWER (ATL40)
*	4-260-910-01	CUSHION, UPPER (ATL40)
	1-821-926-11	PLUG CONVERSION ADAPTOR(SOUTH AFRICA)
	1-822-631-11	PLUG CONVERSION ADAPTOR(INDIA)
	4-266-094-11	MANUAL, INSTRUCTION(40CX520(Hong Kong))
	4-268-265-31	MANUAL, INSTRUCTION (40CX520(THAILAND)
	4-268-265-22	MANUAL, INSTRUCTION (40CX520 (SOGUL,SINGAPORE,INDONESIA,
		VIETNAM,PHILLIPINES,MALAYSIA),
		40CX523(SOGUL,SAUDI ARABIA, NEGERIA)
	4-268-265-12	MANUAL, INSTRUCTION
		(40CX520 (SOGUL,SINGAPORE,INDONESIA,
		VIETNAM,PHILLIPINES,THAILAND,INDIA,
		SOUTH AFRICA, MALAYSIA, PAKISTAN)
		40CX523(SOGUL,SAUDI ARABIA, NEGERIA)
	4-268-464-11	MANUAL, INSTRUCTION(40CX520(Taiwan))
		**********
		<REMOTE COMMANDER>
		**********
	1-489-457-11	REMOTE COMMANDER (RM-CD013)(Taiwan)
	1-489-456-11	REMOTE COMMANDER (RM-GD020)(Except Taiwan)
		**********
		<MISCELLANEOUS>
		**********
	X-2549-819-1	BAG, SCREW ASSY(M)
	4-188-302-11	HEX WRENCH
*	4-267-922-01	CARTON, INDIVIDUAL
	X-2580-498-1	BAG ASSY, FALL LOCK BELT M4X10(40CX520(Taiwan))
	2-580-663-02	SCREW, WOOD 3.8X20(Taiwan))
	4-100-136-01	SHEET (CORE), C
	4-275-363-11	SUPPLEMENT(STAND INSTALLATION)
	7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT
		46CX520(HONG KONG)(SOGUL, SINGAPORE, INDONESIA,
		VIETNAM, PHILLIPINES, INDIA, THAILAND, MALAYSIA,
		SOUTH AFRICA, AUSTRALIA, NEW ZEALAND,(TAIWAN)
		40CX523(SOGUL, SUAID ARABIA, NIGERIA)

6-6-4. KDL-46CX520, 46CX523

REF NO.	PART NO.	DESCRIPTION
		<ACCESSORIES AND PACKING>
		**********
	1-569-008-22	ADAPTOR, CONVERSION 2P
		46CX520(SOGUL , Singapore, Indonesia,
		Vietnam, Phillipines)
*	4-260-913-01	CUSHION, UPPER (ATL46)
*	4-260-914-01	CUSHION, LOWER (ATL46)
	1-821-926-11	PLUG CONVERSION ADAPTOR(SOUTH AFRICA)
	1-822-631-11	PLUG CONVERSION ADAPTOR(INDIA)
*	2-639-807-01	JOINT
	4-268-265-31	MANUAL, INSTRUCTION(46CX520(Thailand))
	4-268-265-22	MANUAL, INSTRUCTION (46CX520 (SOGUL,SINGAPORE,INDONESIA,
		VIETNAM,PHILLIPINES,MALAYSIA),
		46CX523(SOGUL,SAUDI ARABIA, NEGERIA)
	4-268-265-12	MANUAL, INSTRUCTION
		(46CX520 (SOGUL,SINGAPORE,INDONESIA,
		VIETNAM,PHILLIPINES,THAILAND,INDIA,SOUTH AFRICA, MALAYSIA,
		46CX523(SOGUL,SAUDI ARABIA, NEGERIA)
	4-274-108-11	MANUAL, INSTRUCTION (IRAN)
		**********
		<REMOTE COMMANDER>
		**********
	1-489-456-11	REMOTE COMMANDER (RM-GD020)
		**********
		<MISCELLANEOUS>
	X-2560-379-1	BAG, SCREW ASSY (L)
	4-188-302-11	HEX WRENCH
*	4 -267-923-21	CARTON, INDIVIDUAL(46CX520(IRAN))
*	4 -267-923-01	CARTON, INDIVIDUAL
		(46CX520(SOGUL, SINGAPORE, INDONESIA, VIETNAM,
		PHILLIPINES, INDIA, THAILAND, MALAYSIA, SOUTH AFRICA),
		46CX520(PAKISTAN),46CX523(SOGUL, SAUDI ARABIA, NIGERIA))
	4-100-136-01	SHEET (CORE), C
*	4-275-363-11	SUPPLEMENT(STAND INSTALLATION)
	7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT
		(46CX520(SOGUL, SINGAPORE, INDONESIA, VIETNAM,
		PHILLIPINES, INDIA, THAILAND, MALAYSIA, SOUTH AFRICA),
		46CX523(SOGUL, SAUDI ARABIA, NIGERIA)

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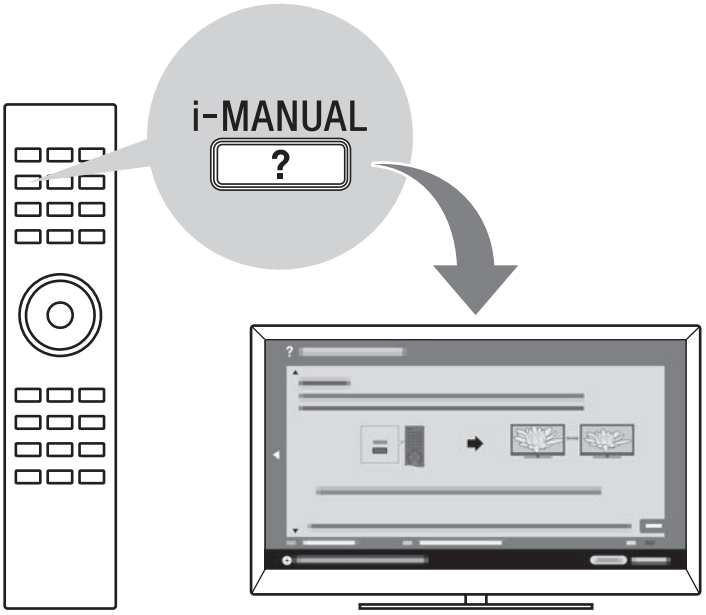
SONY

4-268-265-**12**(1)

LCD
Digital Colour TV

Operating Instructions

Getting Started
Using Your BRAVIA TV
Network Setup
Additional Information



BRAVIA

KDL-55EX723 / 55EX720 / 46EX723 / 46EX720 / 46EX523 / 46EX520 / 46CX523 / 46CX520 / 40EX723
KDL-40EX720 / 40EX523 / 40EX520 / 40CX523 / 40CX520 / 32EX723 / 32EX720 / 32EX523 / 32EX520
KDL-32EX420 / 32CX523 / 32CX520 / 26EX423 / 26EX420 / 22EX423 / 22EX420

Introduction

Thank you for choosing this Sony product. Before operating the TV, please read this manual thoroughly and retain it for future reference.

✍

- Instructions about “Installing Wall Mount Bracket” are included within this TV’s instructions manual.
- The illustrations used in this manual are of the KDL-40EX520 series unless otherwise state.
- The illustrations of the remote control used in this manual are of the RM-GD019 unless otherwise stated.
- Before operating the TV, please read “Safety Information” (page 31). Retain this manual for future reference.

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gracenote

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

DOLBY DIGITAL PLUS PULSE

dlna CERTIFIED

DIVX

Notes for Australia and New Zealand model

This product is ENERGY RATING qualified in the “Home” mode. ENERGY RATING is a program designed to promote energy efficient products and practices.

- When the TV is initially set up, it is designed to meet ENERGY RATING requirements while maintaining optimum picture quality.
- Changes to certain features, settings, and functionalities of this TV (e.g. TV Guide, Picture/Sound, Eco-Setting) can slightly change the power consumption.

Depending upon such changed settings (e.g. “Shop” mode), the power consumption may vary which possibly could exceed the stated energy rating.

To reset the TV to ENERGY RATING qualified settings, select “Home” mode from the initial set-up procedure in “Factory Settings” under the “Set-up” menu.

IMPORTANT INFORMATION

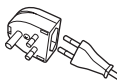
If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

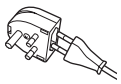
Notice for customers in the South Africa

The Euro/South Africa converter plug should be fitted as follows.

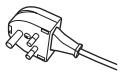
1 Insert the power supply or CEE7 plug in to the converter plug.



2 Use an appropriate screwdriver to attach the screw tightly without damaging the screw head.



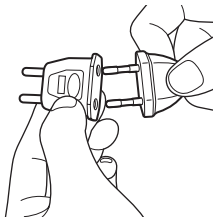
3 TEST: Grip the converter plug, and pull the VDE cord set/ transformer to ensure it is fully secure, if not then increase the torque setting and further tighten.
Re-test.



The converter plug is now ready for use.

Notice for customers in India

Attach the supplied plug adaptor.



Location of the identification label

Labels for Model No. and Power Supply rating (in accordance with applicable safety regulation) are located on the rear of the TV.

Precautions

Viewing the TV

- Some people may experience discomfort (such as eye strain, fatigue, or nausea) while watching 3D video images or playing 3D video games. Sony recommends that all viewers take regular breaks while watching 3D video images or playing 3D video games. The length and frequency of necessary breaks will vary from person to person. You must decide what works best. If you experience any discomfort, you should stop watching the 3D video images or playing 3D video games until the discomfort ends; consult a doctor if you believe necessary. You should also review (i) the instruction manual of any other device or media used with this television and (ii) our website (http://www.sony-asia.com/support) for the latest information. The vision of young children (especially those under six years old) is still under development. Consult your doctor (such as a pediatrician or eye doctor) before allowing young children to watch 3D video images or play 3D video games. Adults should supervise young children to ensure they follow the recommendations listed above.
- When using the simulated 3D function, please note that the displayed image is modified from the original due to the conversion done by this television.
- View the TV in moderate light, as viewing the TV in poor light or during long period of time, strains your eyes.
- When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

LCD Screen

- Although the LCD screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD screen and is not a malfunction.
- Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the LCD screen may be damaged.
- If this TV set is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena disappear as the temperature rises.
- Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- The screen and cabinet get warm when this TV set is in use. This is not a malfunction.
- The LCD screen contains a small amount of liquid crystal. Some fluorescent tubes used in this TV set also contain mercury. Follow your local ordinances and regulations for disposal.

Handling and cleaning the screen surface/cabinet of the TV set

Be sure to unplug the AC power cord connected to the TV set from AC power outlet before cleaning.

To avoid material degradation or screen coating degradation, observe the following precautions.

- To remove dust from the screen surface/cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Do not spray water or detergent directly on the TV set. It may drip to the bottom of the screen or exterior parts, and may cause a malfunction.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.
- Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table stand.

Optional Equipment

Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.

(Caution about handling the remote control)

Notes

- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate the disposal of batteries. Please consult your local authority.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, a place subject to direct sunlight, or a damp room.

Disposal of the TV set (Australian model only)

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol is on the remote control.

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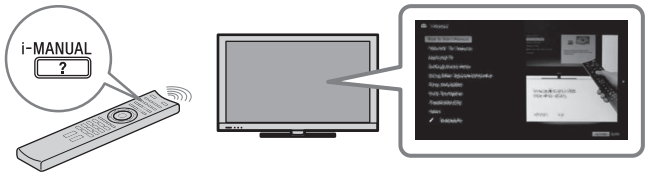
After setting up your BRAVIA TV and learning basic operations with this manual, see the built-in manual (i-Manual) for further explanation of the features of your TV.

This TV has a built-in manual (i-Manual).
To access the i-Manual, press **i-MANUAL** on the remote, and select an item. For details, see page 16 of this manual. Contents of the i-Manual may differ depending on the model/region/area.



Contents of the i-Manual

How to Use i-Manual

“BRAVIA” TV Features

3D Feature
Presence Sensor
“BRAVIA” Internet Video
Internet Widgets
Wireless LAN Ready
“BRAVIA” Sync with “Control for HDMI”
TrackID™/Music Search/Video Search

Watching TV

3D Feature
Digital Electronic Programme Guide
Programme Guide for Digital Text
Favourites
Wide Mode
Picture Mode
Text
Photos/Music/Videos
Twin Picture (PIP)
Twin Picture (P&P)

Settings/Home Menu

About the Home Menu
Settings
Display
Sound
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i-Manual
Digital Set-up
Analogue Set-up
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Network
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VCR/DVD Player
Audio System
USB Device (e.g. Digital Camera)
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Getting Started

Checking the accessories

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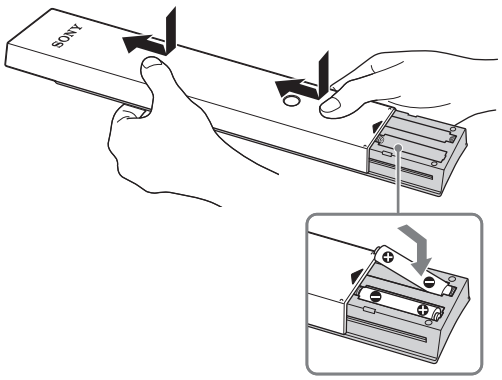
Size AAA batteries (R3 type) (2)
Table-Top Stand (1)[*1]
Fixing screws for Table-Top Stand (M4 × 12) (2) (for KDL-26/22EX42x)
Fixing screws for Table-Top Stand (M5 × 16) (3) (for KDL-55/46/40/32EX72x, KDL-46/40/32EX52x, KDL-46/40/32CX52x, KDL-32EX420)
Assembling screws for Table-Top Stand (M4 × 12) (2) (for KDL-26/22EX42x)
Assembling screws for Table-Top Stand (M5 × 16) (2) (for KDL-32EX420 (Australia model))
Assembling screws for Table-Top Stand (M6 × 14) (4) (for KDL-55/46EX72x, KDL-46EX52x, KDL-46CX52x)
Assembling screws for Table-Top Stand (M6 × 14) (3) (for KDL-40/32EX72x, KDL-40/32EX52x, KDL-40/32CX52x, KDL-32EX420 (except Australia model))
Hexagon wrench (1) (except KDL-32EX420 (Australia model), KDL-26/22EX42x)
Operating Instructions (this manual) and other documents

[*1] Assemble the Table-Top Stand with the supplied assembling screws. Refer to the supplied Table-Top Stand leaflet to assemble the stand.

Inserting batteries into the remote

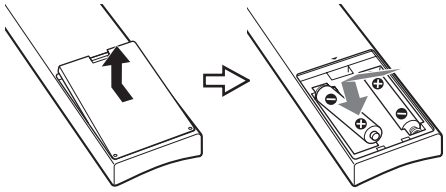
► **KDL-55/46/40/32EX723 and KDL-55/46/40/32EX720**



1 Remove the protection sheet.

2 Push and slide the cover upward.

► **KDL-46/40/32EX523, KDL-46/40/32EX520, KDL-46/40/32CX523, KDL-46/40/32CX520, KDL-26/22EX423 and KDL-32/26/22EX420**



1 Remove the protection sheet.

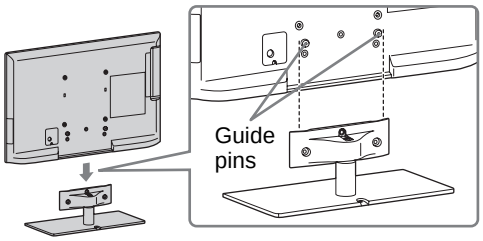
2 Push and lift the cover to open.

1: Attaching the Table-Top Stand

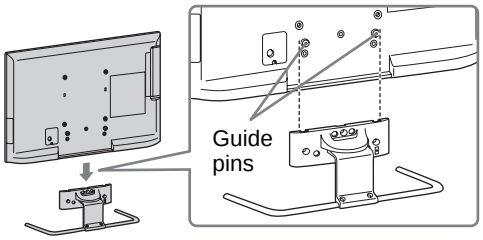
1 Refer to the supplied Table-Top Stand leaflet for proper attachment for some TV models.

2 Place the TV set on the Table-Top Stand.

► KDL-55/46/40/32EX723, KDL-55/46/40/32EX720, KDL-46/40/32EX523, KDL-46/40/32EX520, KDL-46/40/32CX523, KDL-46/40/32CX520 and KDL-32EX420 (except Australia model)

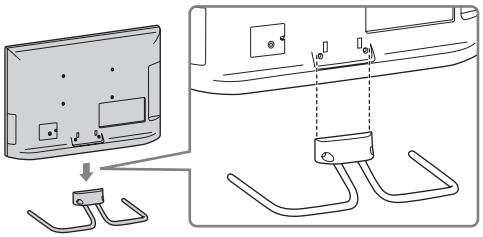


► KDL-32EX420 (Australia model)



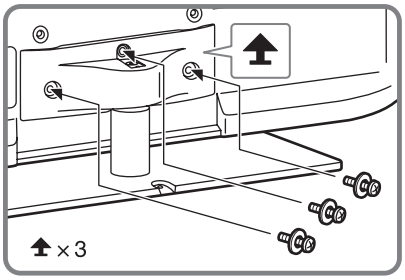
✍
- Align the TV from the top, slide it in until the guide pins cannot be seen.

► KDL-26/22EX423 and KDL-26/22EX420

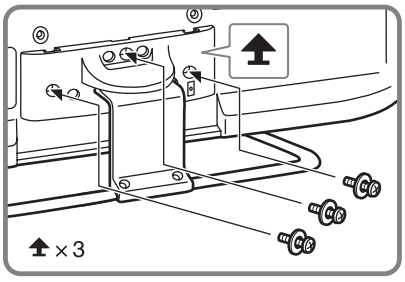


3 Fix the TV to the Table-Top Stand according to the arrow marks ⬆ that guide the screw holes using the supplied screws.

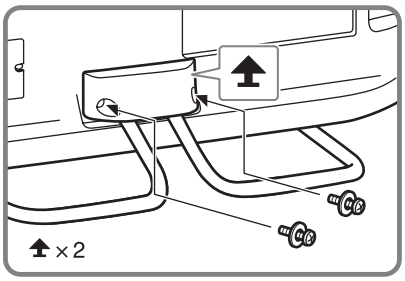
► KDL-55/46/40/32EX723, KDL-55/46/40/32EX720, KDL-46/40/32EX523, KDL-46/40/32EX520, KDL-46/40/32CX523, KDL-46/40/32CX520 and KDL-32EX420 (except Australia model)



► KDL-32EX420 (Australia model)



► KDL-26/22EX423 and KDL-26/22EX420



✍
- If using an electric screwdriver, set the torque at approximately 15 kgf·cm {1.5 N·m}.

Detaching the Table-Top Stand from the TV

To detach the Table-Top Stand from the TV, remove the screws ⬆ fixed in step 3.

✍
- Do not remove the Table-Top Stand for any reason other than to install corresponding accessories on the TV.
- When removing the Table-Top Stand from the TV, lay the display face down on a stable work surface that is larger than the TV.
- To prevent damaging the surface of the LCD display, make sure to place a soft cloth on the work surface.

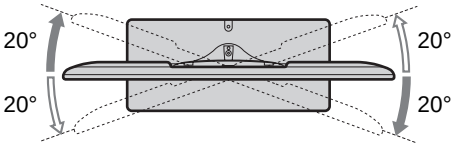
2: Adjusting the viewing angle of the TV

This TV can be adjusted within the angles as illustrated.

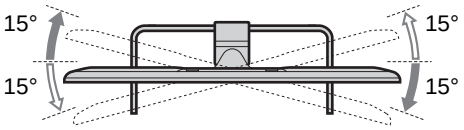
Angle adjustment (Swivel) (except KDL-26/22EX42x)

- When adjusting the angle, hold the stand with one hand to avoid having the stand slip or TV tip over.

► Except KDL-32EX420 (Australia model)



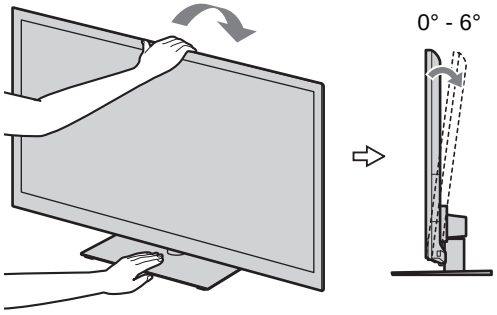
► KDL-32EX420 (Australia model)



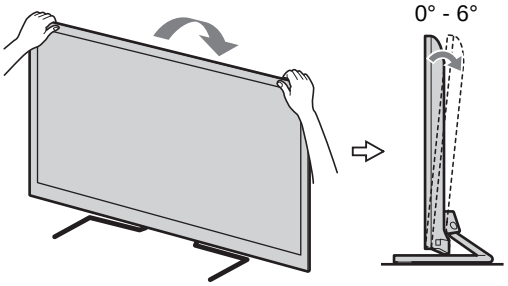
Angle adjustment (Tilt) (except KDL-46/40/32CX523/ KDL-46/40/32CX520)

- Be careful not to pinch your fingers between the TV and stand when adjusting the angle.

► KDL-55/46/40/32EX723, KDL-55/46/40/32EX720, KDL-46/40/32EX523, KDL-46/40/32EX520 and KDL-32EX420 (except Australia model)

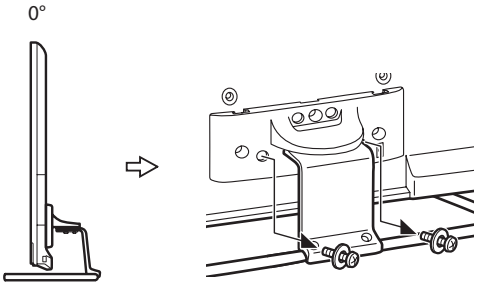


► KDL-26/22EX423 and KDL-26/22EX420

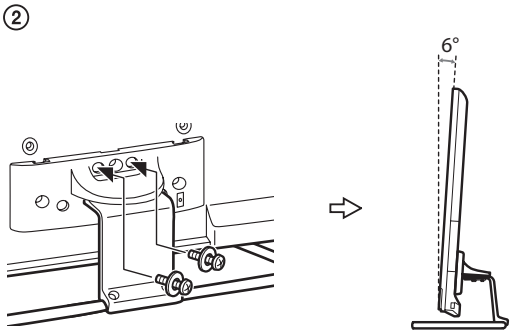


► KDL-32EX420 (Australia model)

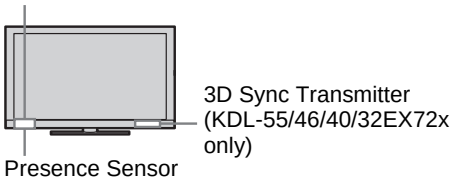
①



②



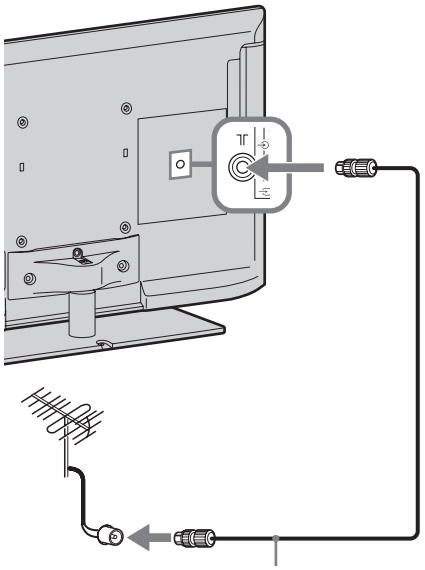
- Ensure that there are no objects in front of the TV.



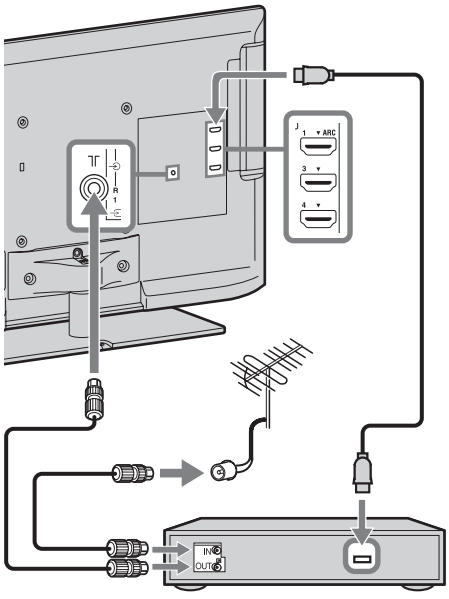
- Do not expose the Presence Sensor to direct sunlight or other strong light, as malfunction may occur.

3: Connecting an antenna/ cable/VCR

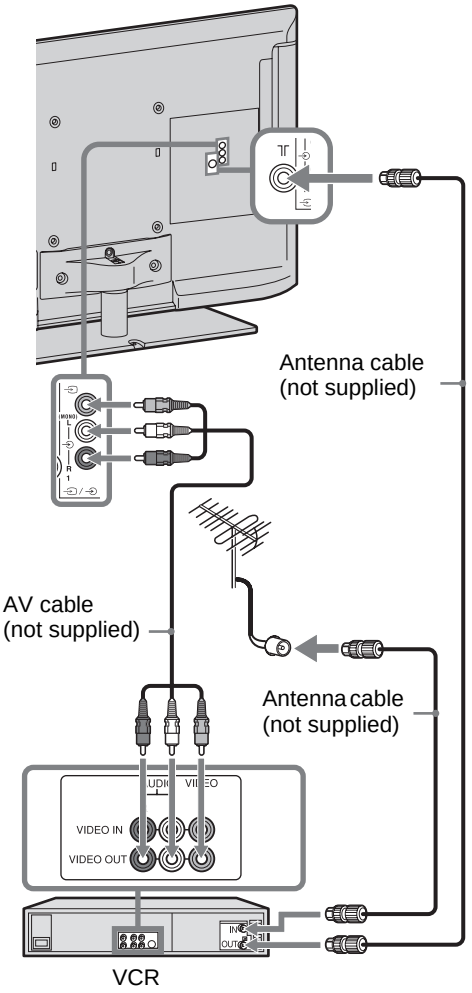
Connecting an antenna/cable



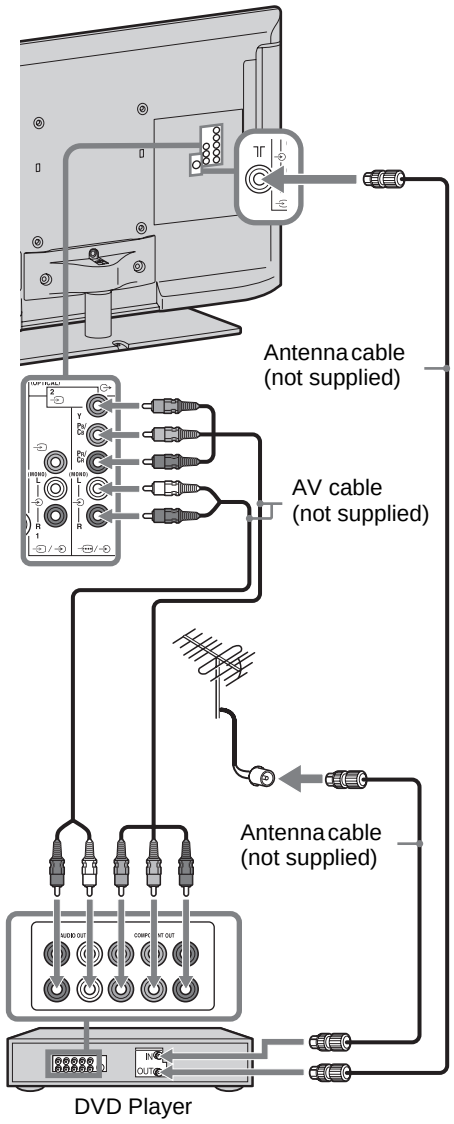
Connecting a Set Top Box/recorder (e.g. DVD recorder) with HDMI



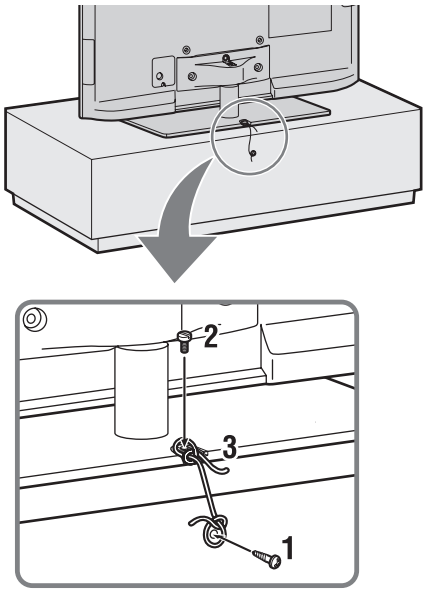
Connecting an antenna/cable and VCR



4: Connecting audio/video devices



5: Preventing the TV from toppling over



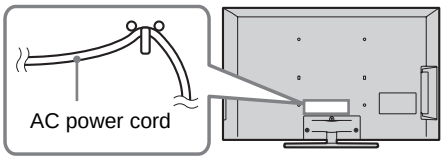
1 Install a wood screw (4 mm in diameter, not supplied) in the TV stand.

2 Install a machine screw (M4 × 10, not supplied) into the screw hole of the TV.

3 Tie the wood screw and the machine screw with a strong cord (not supplied).

6: Organizing the AC power cord/Bundling the cables

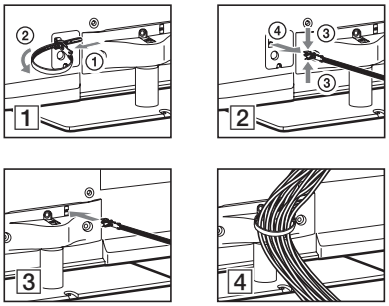
► KDL-46/40/32CX52x



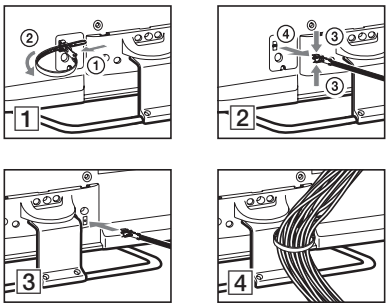
► Except KDL-46/40/32CX52x

- Before bundling the cables, remove the cable holder from the AC cover (see step 1 and 2). Reuse the cable holder (see step 3) to bundle the other cables (see step 4).
- Do not bundle the AC power cord together with other cables.

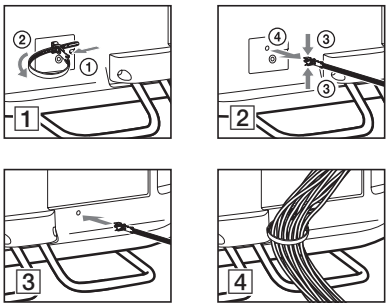
KDL-55/46/40/32EX723,
KDL-55/46/40/32EX720,
KDL-46/40/32EX523,
KDL-46/40/32EX520 and
KDL-32EX420 (except Australia model)

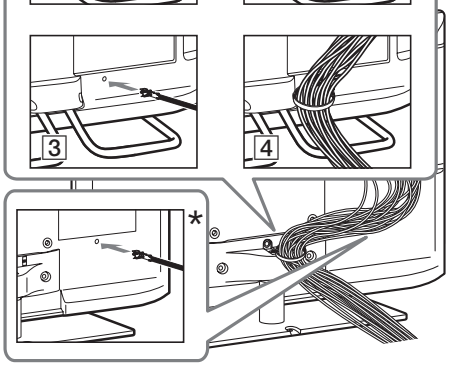


KDL-32EX420 (Australia model)



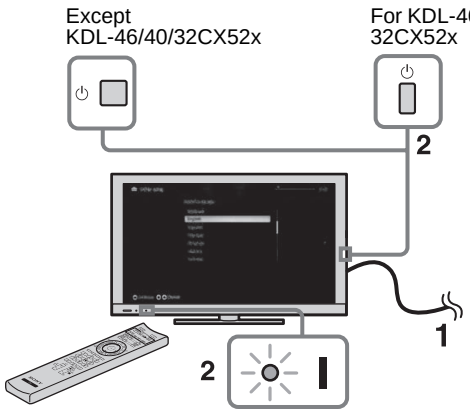
KDL-26/22EX423 and KDL-26/22EX420





* When installing on the wall, attach the cable holder under the terminals.

7: Performing the initial set-up



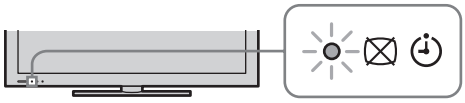
1 Connect the TV to your AC power outlet (mains socket).

2 Press ⏻ on the TV. The I (power) indicator will light green.

When you switch on the TV for the first time, the Language menu appears on the screen.

✍

- When you turn on the TV for the first time, the TV requires some internal processing for optimization before you can perform the initial setup. There will be no picture and sound, and the timer indicator on the front of the TV blinks orange for about 40 seconds. Do not turn off the TV during this process. This process has been completed at the factory on some TVs.



3

Follow the instructions on the screen.

Programme Sorting: Changes the order of analogue channels stored in the TV.

1 Press ⇧/⇩ to select the channel you want to move to a new position, then press ⊕.

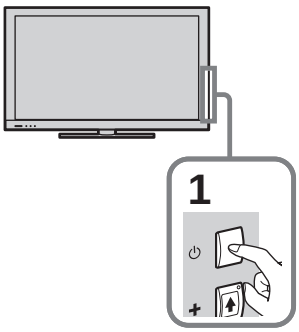
2 Press ⇧/⇩ to select the new position for the channel, then press ⊕.

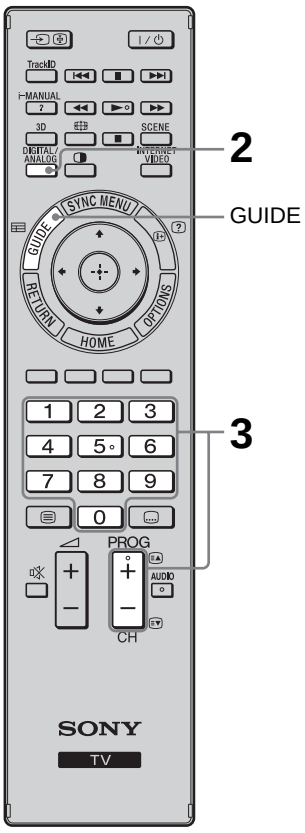
✍

- You can also tune channels manually.

Using Your BRAVIA TV

Watching the TV





- The number **5**, ►, **PROG +** and **AUDIO** buttons on the remote have a tactile dot. Use the tactile dots as a reference when operating the TV.

1 **Turn on the TV.**

Press ⏻ on the TV to turn on the TV.

2 **Select a mode.**

3 **Select a TV channel.**

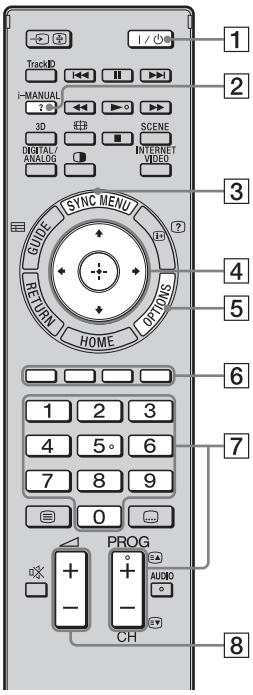
To use Digital Electronic Programme Guide

Press **GUIDE** in digital mode to display the programme guide.

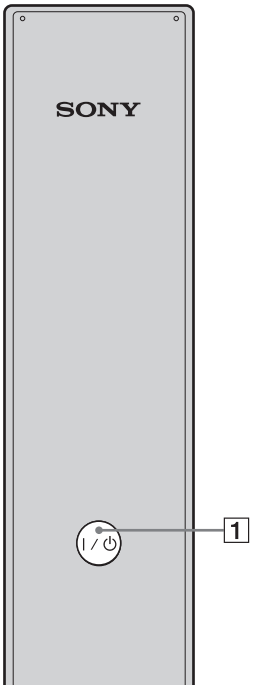
Use with **0-9** to select digital channels. For channel numbers 10 and above, press the next digit quickly.

Parts and controls of the remote

Use the supplied remote to control your TV. Basic remote operations are explained here. For details on all of the remote function, press **i-MANUAL** and see the built-in manual (i-Manual) (page 16).



For KDL-55/46/40/32EX72x



Rear of Remote Control

1 I/⏻

Press to turn the TV on and off from standby mode.

2 i-MANUAL

Displays the built-in manual (i-Manual).

3 SYNC MENU

Displays the BRAVIA Sync menu to operate the BRAVIA Sync-compatible equipment that is connected to the TV.

4 ⇧/⇩/⇦/⇨/⊕

Moves the on-screen cursor, and confirm the item.

5 OPTIONS

Displays a list of convenient functions and menu shortcuts. The menu items vary based on the current input and/or content.

6 Coloured buttons

When the coloured buttons are available, an operation guide appears on the screen.

7 PROG/CH +/–/Number buttons

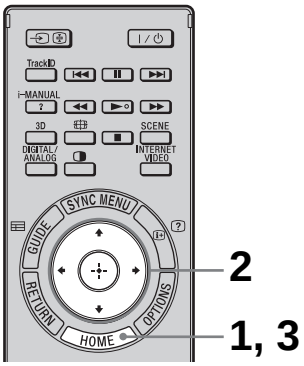
Select channels in the TV mode.

8 ◿ +/–

Adjusts the volume.

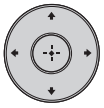
Selecting various functions and settings (Home Menu)

You can select all the features from the Home menu.
See page 15 for the Home menu map.



1 **Press HOME.**

2 **Press ⇧/⇩/⇦/⇨/⊕ to select items.**



To select items in the Home menu (e.g., selecting “Settings”)

① Press ⇦/⇨ to select “Settings”.
The contents of “Settings” are displayed on the right.

② Press ⇧/⇩ to select “Display”.

③ Press ⊕ to launch the menu.
According to the screen instruction, press ⇧/⇩/⇦/⇨ to select items and press ⊕ to confirm.

3 **Press HOME to exit.**

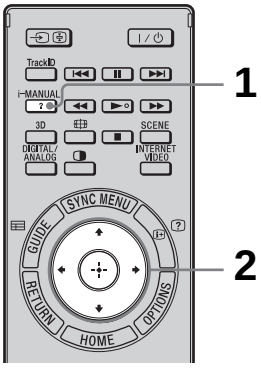
Home menu map

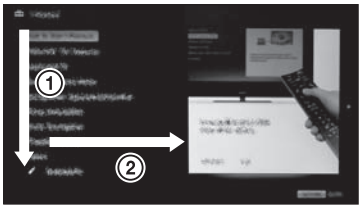
After pressing **HOME** on the remote control, following icons are displayed as categories. The categories are available depending on your TV model, region, country and broadcasting conditions.

TV	You can select a list of TV channels, or a programme guide.
Media	You can enjoy photo/music/video content via USB devices or the home network.
Inputs	You can select equipment connected to the TV.
Favourites/History	Provides quick access to your frequently used and recently viewed items, such as TV channels, external inputs or your media files.
Settings	Contains all of the necessary configurations to customise your TV settings.
Widgets	Provides access to Widgets.
Applications	You can enjoy various applications such as “Music Search”, “Internet Browser”, etc.
Qriocity	Provides access to the “Qriocity” online service.
Internet Content	You can enjoy Internet content services.
Recommendations	Presents recommendations for programmes you may like, based on your viewing history.

Displaying Operating Instructions (i-Manual)

Operating instructions are built into your BRAVIA TV and can be displayed on the screen.
To learn more about your TVs features, access your i-Manual with the touch of a button.

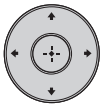




④

1 **Press i-MANUAL.**

2 **Press ⇧/⇩/⇦/⇨/⊕ to select items.**



To select items in the i-Manual

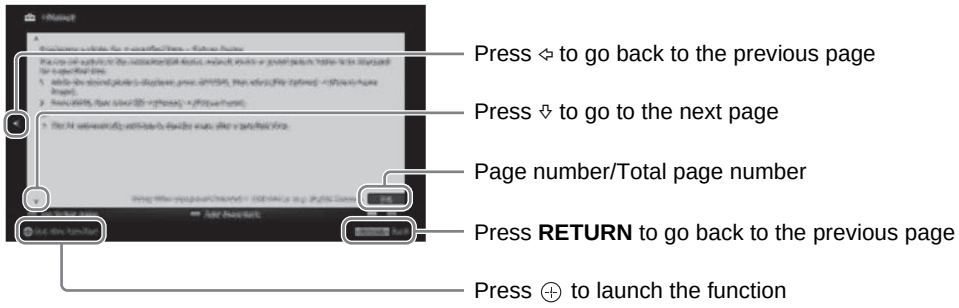
① Press ⇧/⇩ to select an item.
The contents in the item are displayed on the right as the second layer.

② Press ⇨ to move to the second layer.

③ Press ⇧/⇩ to select an item from the second layer.
A digest of the item is displayed on the right.
If the third layer is available, repeat this step to display the digest of the item.

④ Press ⇨ to select an item.
The content is displayed.

Description of the i-Manual screen

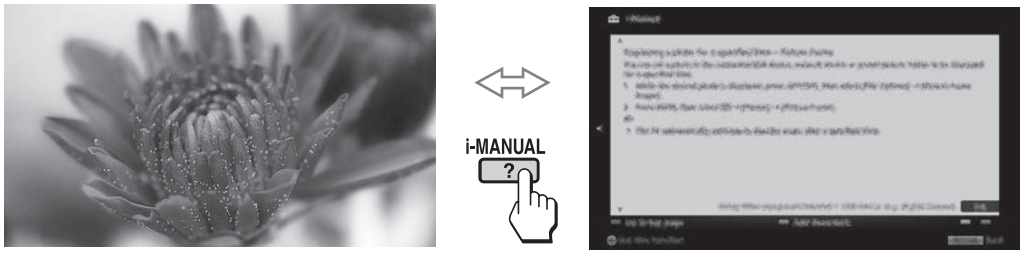

Press ⇦ to go back to the previous page
Press ⇩ to go to the next page
Page number/Total page number
Press **RETURN** to go back to the previous page
Press ⊕ to launch the function

To use the bookmark

The i-Manual has a bookmark function. Pages can be bookmarked with coloured buttons, according to the instructions at the bottom of the screen. To access your registered bookmarks, go to the top page of the i-Manual and select “Bookmarks”.

To memorise the last displayed page

i-Manual memorises the last displayed page. When in the i-Manual screen, press **i-MANUAL** to return to the TV screen. If you press **i-MANUAL** again, the information you saw last time appears. For viewing from the top page of the i-Manual, return to the top page according to the instructions on screen, or press **HOME** and select “i-Manual” of “Settings” in the Home menu.



✍

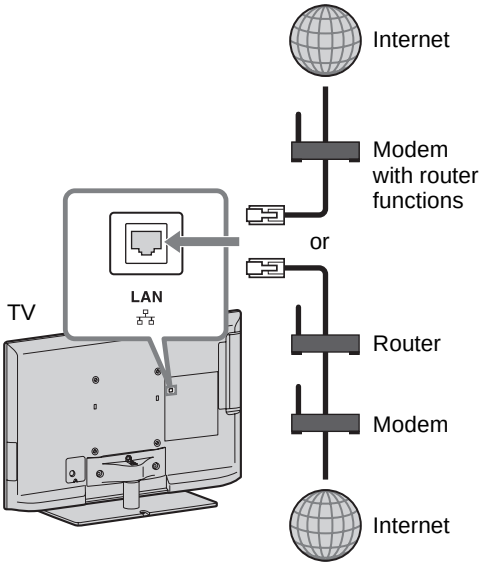
- Last page memory is automatically reset when you switch the TV to standby mode.

Network Setup

When you connect this TV to the Internet, you can enjoy multiple functions: displaying a photograph that shows its location on the map, enjoying Internet video, etc. For details on the functions, refer to the i-Manual.

✍
- You will need to contract with an Internet service provider to connect to the Internet.

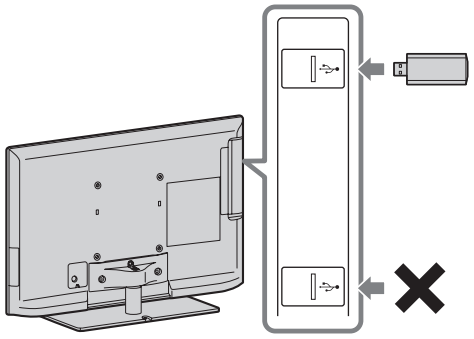
Preparing a wired network



✍
- For LAN connections, use a Category 7 cable (not supplied).

Preparing a wireless LAN

Wireless LAN Ready lets you easily access the Internet and your home network with the USB Wireless LAN Adaptor UWA-BR100 (as of January 2010). By inserting the USB Wireless LAN Adaptor into your TV's USB port, you can easily create a cable-free network. Before setting up the wireless LAN function of the TV, be sure to set up a wireless LAN router.

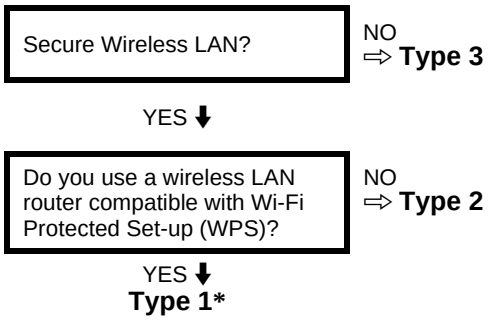


✍
- The USB Wireless LAN Adaptor is available as an optional accessory, depending on your TV model.

Setting up the Internet connection

Using the network feature you can connect the TV to the Internet. The set-up procedure differs depending on the type of network and LAN router. Before setting up the Internet connection, be sure to set up a LAN router. Check your wireless LAN environment using the following chart.

Wireless LAN



Wired LAN ➡ Type 4

* Type 1 is easier to set up if your router has an automatic setting button, e.g. Air Station One-Touch Secure System (AOSS). Most of the latest routers have this function. Check your router.

Type 1: Follow the configuration for "Secured Network with Wi-Fi Protected Set-up (WPS)".
Type 2: Follow the configuration for "Secured Network without Wi-Fi Protected Set-up (WPS)".
Type 3: Follow the configuration for "Unsecured Network with Any Type of Wireless LAN Router".
Type 4: Follow the configuration for "Wired network set-up".

Type 1: Secured network with Wi-Fi protected Set-up (WPS)

The WPS standard makes security of a wireless home network as straightforward as pressing the WPS button on the wireless LAN router. Before setting up a wireless LAN, check the location of the WPS button on the router and verify how to use it.

For security purpose, "WPS (PIN)" provides a PIN code for your router. PIN code is renewed every time you select "WPS (PIN)".

1 Press **HOME**, then select > "Network" > "Network Set-up".

2 Select "Wireless Set-up".

3 Select "WPS (Push Button)" for Push Button method or "WPS (PIN)" for PIN method.

✍
• Button name of the WPS may differ depending on the router (e.g. AOSS button).

4 Follow the instructions on the set-up screen.

Type 2: Secured network without Wi-Fi protected Set-up (WPS)

To set up a wireless LAN, SSID (wireless network name) and security key (WEP or WPA key) will be required. If you do not know them, consult the instruction manual of your router.

1 Press **HOME**, then select > "Network" > "Network Set-up".

2 Select "Wireless Set-up".

3 Select "Scan", then select a network from the list of scanned wireless networks.

4 Follow the instructions on the set-up screen.

✍
• If you use WPS for network set-up, the security settings of the wireless LAN router activate, and any equipment previously connected to the wireless LAN in a non-secure status will be disconnected from the network.
In this case, activate the security settings of the disconnected equipment and then reconnect. Or, you can deactivate the security settings of the wireless LAN router, and then connect the equipment to a TV in a non-secure status.

(Continued)

Type 3: Unsecured network with any type of wireless LAN router

To set up a wireless LAN, SSID (wireless network name) will be required.

1 Press **HOME**, then select > “Network” > “Network Set-up”.

2 Select “Wireless Set-up”.

3 Select “Scan”, then select a network from the list of scanned wireless networks.

4 Follow the instructions on the set-up screen.

✍

- Security key (WEP or WPA key) will not be required because you do not need to select any security method in this procedure.

Type 4: Wired network set-up

Enter the respective alphanumeric values for your router if necessary. The items that need to be set (e.g. IP Address, Subnet Mask, DHCP) may differ depending on the Internet service provider or router. For details, refer to the instruction manuals provided by your Internet service provider, or those supplied with the router.

1 Press **HOME**, then select > “Network” > “Network Set-up”.

2 Select “Wired Set-up”.

3 Select “Auto” to set the IP Address and proxy server automatically, or “Custom” to set them manually.

4 Follow the instructions on the set-up screen.

Viewing the network status

You can confirm your network status.

1 Press **HOME**, then select > “Network” > “Network Set-up”.

2 Select “View Network Status”.

If you cannot connect to the Internet

Use the diagnosis to check possible causes for network connection failures, and settings.

1 Press **HOME**, then select > “Network” > “Network Set-up”.

2 Select “View Network Status”.

3 Select “Check Connection”.
This may take a several minutes. You cannot cancel the diagnosis after selecting “Check Connection”.

Adjusting the server display settings

You can select home network servers to be displayed on the Home Menu. Up to 10 servers can be displayed in the Home Menu automatically.

1 Press **HOME**, then select > “Network” > “Home Network Setup”.

2 Select “Server Display Settings”.

3 Select the server you want to display on the Home Menu, and adjust the settings.

If you cannot connect to your home network

The TV detects if the server is being correctly recognised when you cannot connect it to your home network. If the diagnostic results indicate a failure, check possible causes, and network connections and settings.

1 Press **HOME**, then select > “Network” > “Home Network Setup”.

2 Select “Server Diagnostics”.

The server diagnostic starts. When the server diagnostic is complete, the diagnostic result list appears.

Additional Information

Troubleshooting

When the ⏻ (standby) indicator is flashing, count how many times it flashes (interval time is three seconds).

Press ⏻ on the TV to turn it off, disconnect the AC power cord, and inform your dealer or Sony service centre of how the indicator flashes (number of flashes).

When the ⏻ (standby) indicator is not flashing, check the items in the table as follows.

Also refer to “Troubleshooting” in the i-Manual. If the problem persists, have your TV serviced by qualified service personnel.

Condition	Explanation/Solution
There is no picture (screen is dark) and no sound.	• Check the antenna/cable connection. • Connect the TV to the AC power and press ⏻ on the TV. • If the ⏻ (standby) indicator lights up in red, press **I**/⏻.
Tiny black points and/or bright points appear on the screen.	• The screen is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.
Some programmes cannot be tuned.	• Check the antenna or dish.
The TV turns off automatically (the TV enters standby mode).	• Check if the “Sleep Timer” is activated, or confirm the “Duration” setting of “On Timer”. • Check if the “Idle TV Standby” is activated. • Check if the “Presence Sensor” is activated. When no viewer is detected in front of the TV for a preset time, the picture automatically turns off, while leaving only the TV sound on. Additionally, after 30 minutes in picture off mode, the TV will switch to standby mode.
The remote does not function.	• Replace the batteries. • Your TV may be in SYNC mode. Press **SYNC MENU**, select “TV Control” and then select “Home (Menu)” or “Options” to control the TV.
The “Parental Lock” password has been forgotten.	• Enter 9999 for the PIN code. (PIN code 9999 is always accepted.)
The TV surrounds become warm.	• When the TV is used for an extended period, the TV surrounds become warm. You may feel hot when touching there by the hand.

Specifications

System	
Panel system	LCD (Liquid Crystal Display) Panel
TV system	Analogue: B/G, I, D/K, M, L Digital: DVB–T
Colour/video system	Analogue: PAL, PAL60 (only video input), SECAM, NTSC3.58, NTSC4.43 (only video input) Digital: MPEG-2 MP@ML/HL, MPEG-2 MP@ML/HL, H.264/MPEG-4 AVC MP/HP@L4
Channel coverage	Analogue: VHF: E2–E12/UHF: E21–E69/CATV: S01–S03, S1–S41 VHF: 0–12, 5A, 9A/UHF: 28–69/CATV: S01–S03, S1–S44 (Australia) VHF: 1–11 (New Zealand) D/K: VHF: R1–R12, R21–R69/L: F2–F10, B–Q, F21–F69/I: UHF B21–B69/M: A2–A13, A14–A79 Digital: VHF/UHF, UHF (New Zealand only)
Sound output	10 W + 10 W (KDL-55/46/40/32EX72x, KDL-46/40/32EX52x, KDL-46/40/32CX52x, KDL-32EX420) 8 W + 8 W (KDL-26/22EX42x)
Input/Output jacks	
Antenna (aerial)/cable	75 ohm external terminal for VHF/UHF
→/→ 2	→COMPONENT IN Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i → 2 Video input (phono jacks)
→COMPONENT IN	Audio input (phono jacks)
HDMI IN1, 2, 3, 4 (except KDL-26/22EX42x)	Video: 1080/24p/30p, 1080p, 1080i, 720/24p/30p, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital → Analogue audio input (minijack) (HDMI IN4 only) ARC (Audio Return Channel) (HDMI IN 1 only) PC Input
HDMI IN1, 2 (for KDL-26/22EX42x)	Video: 1080/24p/30p, 1080p, 1080i, 720/24p/30p, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits → Analogue audio input (minijack) (HDMI IN2 only) ARC (Audio Return Channel) (HDMI IN 1 only) PC Input
→ 1	Video input (phono jack)
→1	Audio input (phono jacks)
DIGITAL AUDIO OUT (OPTICAL)	Digital optical jack (Two channel linear PCM, Dolby Digital)
AUDIO OUT/🎧	Audio output (phono jacks) Headphones jack
→PC IN	PC Input (Mini D-sub 15-pin) → PC audio input (minijack)
USB	USB port
LAN	10BASE-T/100BASE-TX connector (Depending on the operating environment of the network, connection speed may differ. 10BASE-T/100BASE-TX communication rate and communication quality are not guaranteed for this TV.)

Model name KDL-	55EX72x	46EX72x	46EX52x	46CX52x	40EX72x	40EX52x	40CX52x
Power and others							
Power requirements	110 V – 240 V AC, 50/60 Hz						
Screen size (measured diagonally)	Approx. 138.8 cm/ 55 inches	Approx. 116.8 cm/46 inches			Approx. 101.6 cm/40 inches		
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)						
Power consumption	Indicated on the rear of the TV						
Dimensions (Approx.) (w × h × d)							
with Table-Top Stand (mm)	1269 × 799 × 315	1078 × 690 × 260	1078 × 690 × 260	1122 × 712 × 275	943 × 616 × 250		991 × 636 × 250
without Table-Top Stand (mm)	1269 × 769 × 41	1078 × 660 × 42	1078 × 660 × 42	1122 × 682 × 74	943 × 586 × 42		991 × 606 × 71
Mass (Approx.)							
with Table-Top Stand (kg)	25.4	17.9	17.8	20.7	14.4		16.3
without Table-Top Stand (kg)	20.2	14.3	14.2	17.1	11.2		12.9
Supplied accessories	See “Checking the accessories” (page 6).						

(Continued)

Model name KDL-	55EX72x	46EX72x	46EX52x	46CX52x	40EX72x	40EX52x	40CX52x
Optional accessories	Wall-Mount Bracket: SU-WL50B USB Wireless LAN Adaptor 3D Glasses: TDG-BR250, TDG-BR200, TDG-BR100, TDG-BR50 (for KDL-55/46/40EX723, KDL-55/46/40EX720)						
Operating temperature	0 ºC – 40 ºC						
Operating humidity	10 % – 80 % RH (non-condensing)						

Model name KDL-	32EX72x	32EX52x	32CX52x	32EX420*1	32EX420*2	26EX42x	22EX42x
Power and others							
Power requirements	110 V – 240 V AC, 50/60 Hz						
Screen size (measured diagonally)	Approx. 80.1 cm/32 inches					Approx. 66.1 cm/ 26 inches	Approx. 54.8 cm/ 22 inches
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)			1,366 dots (horizontal) × 768 lines (vertical)			
Power consumption	Indicated on the rear of the TV						
Dimensions (Approx.) (w × h × d)							
with Table-Top Stand (mm)	755 × 510 × 216		799 × 532 × 230	755 × 510 × 216	755 × 498 × 225	631 × 421 × 182	529 × 362 × 172
without Table-Top Stand (mm)	755 × 480 × 42		799 × 502 × 70	755 × 480 × 42	755 × 482 × 42	631 × 406 × 42	529 × 347 × 42
Mass (Approx.)							
with Table-Top Stand (kg)	10.4	10.2	11.4	10.2	9.9	7.2	5.1
without Table-Top Stand (kg)	7.9	7.7	8.7	7.7	7.7	6.1	4.1
Supplied accessories	See “Checking the accessories” (page 6).						
Optional accessories	Wall-Mount Bracket: SU-WL50B (for KDL-32EX723, KDL-32EX720, KDL- 32EX523, KDL-32EX520, KDL-32CX523, KDL-32CX520) SU-WL100 (for KDL-26/22EX423, KDL-26/22EX420) USB Wireless LAN Adaptor 3D Glasses: TDG-BR250, TDG-BR200, TDG-BR100, TDG-BR50 (for KDL-32EX723, KDL-32EX720)						
Operating temperature	0 ºC – 40 ºC						
Operating humidity	10 % – 80 % RH (non-condensing)						

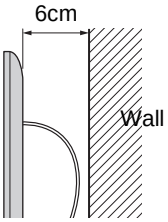
*1 Except Australia model
*2 Australia model

Design and specifications are subject to change without notice.

Installing the Accessories (Wall-Mount Bracket)

To Customers:

When using SU-WL50B and SU-WL100 Wall-Mount Bracket, the space between the wall and the TV will be 6 cm. Use this space to route cables to the TV.



For product protection and safety reasons, Sony strongly recommends that installing of your TV be performed by Sony dealers or licensed contractors. Do not attempt to install it yourself.

To Sony Dealers and Contractors:

Provide full attention to safety during the installation, periodic maintenance and examination of this product.

Your TV can be installed using the SU-WL50B and SU-WL100 Wall-Mount Bracket (sold separately).

- Refer to the Instructions supplied with the Wall-Mount Bracket to properly carry out the installation.
- Refer to “Detaching the Table-Top Stand from the TV” (page 7).

Sufficient expertise is required for installing this product, especially to determine the strength of the wall for withstanding the TV’s weight. Be sure to entrust the attachment of this product to the wall to Sony dealers or licensed contractors and pay adequate attention to safety during the installation. Sony is not liable for any damage or injury caused by mishandling or improper installation.

(Continued)

SU-WL50B and SU-WL100

When installing the base bracket on the wall (for SU-WL50B):

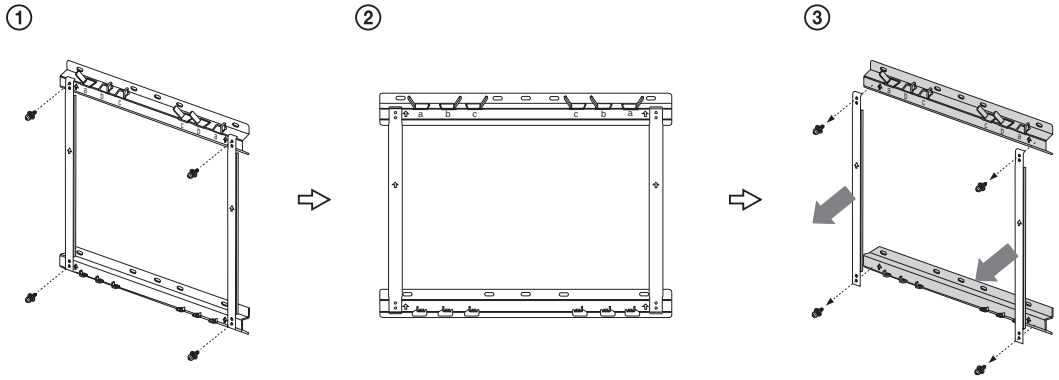
1 Install one side of each plate to the upper bracket and the other side to the lower bracket.

2 Attach the base bracket to the wall.

3 Remove the plates. (except KDL-55EX723, KDL-55EX720)

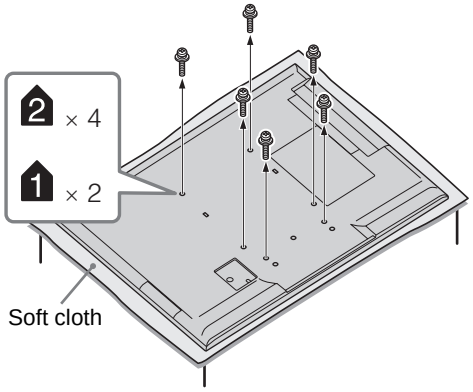
✍

• Be sure to store the plates in a safe place after use.

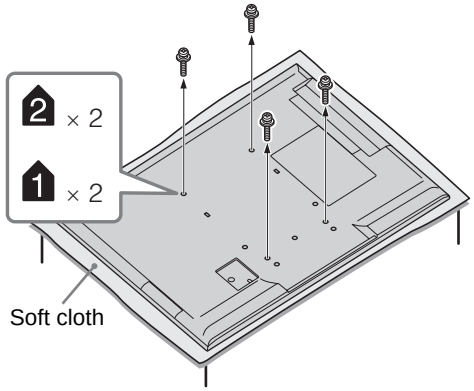


When installing the TV on a wall, remove the screws from the rear of the TV. The screws and number of screws are available depending on the TV model (They are fastened in the screw holes for wall mounting.) Be sure to store the removed screws in a safe place, keeping them away from children.

► **For KDL-55EX72x**



► **For KDL-46/40/32EX72x, KDL-46/40/32EX52x, KDL-32EX42x**



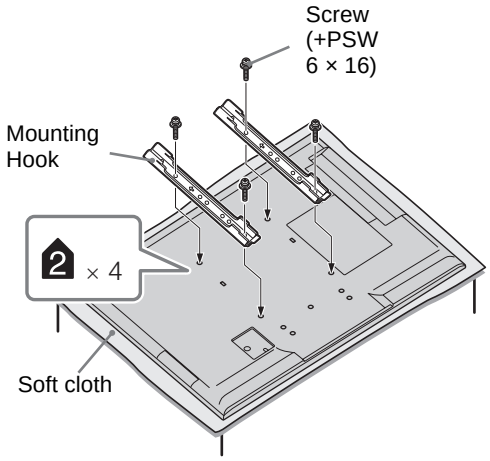
✍

• When removing the Table-Top Stand from the TV, lay the display face down on a stable work surface that is larger than the TV.

• To prevent damaging the surface of the LCD display, make sure to place a soft cloth on the work surface.

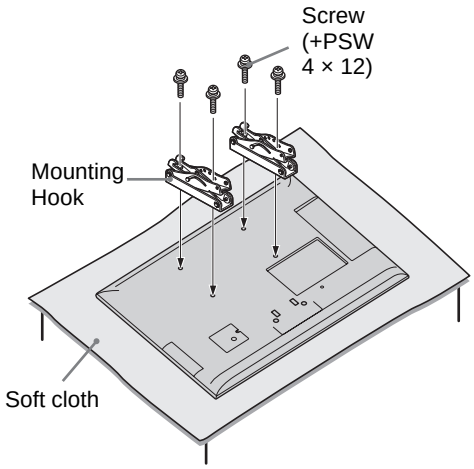
KDL-55/46/40/32EX723, KDL-55/46/32EX720, KDL-46/40/32EX523, KDL-46/40/32EX520, KDL-46/40/32CX523, KDL-46/40/32CX520 and KDL-32EX420

SU-WL50B



KDL-26/22EX423 and KDL-26/22EX420

SU-WL100



- Attach the Mounting Hook using four screws supplied with the Wall-Mount Bracket.
- When attaching the Table-Top Stand again, be sure to fasten the screws (previously removed) to the original holes on the rear of the TV.

(Continued)

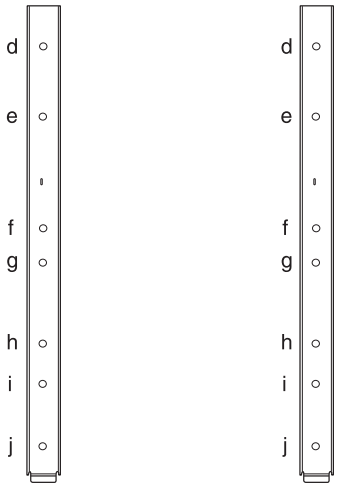
Screw and Hook locations diagram/table

Model Name KDL-	Screw location	Hook location
	SU-WL50B	SU-WL50B
55EX72x	e, j	b
46EX72x/46EX52x	e, j	b
46CX52x	d, i	b
40EX72x/40EX52x	e, j	b
40CX52x	d, i	b
32EX72x/32EX52x	e, h	c
32EX420	e, h	c
32CX52x	e, h	c
		SU-WL100
26EX42x		a
22EX42x		b

SU-WL50B

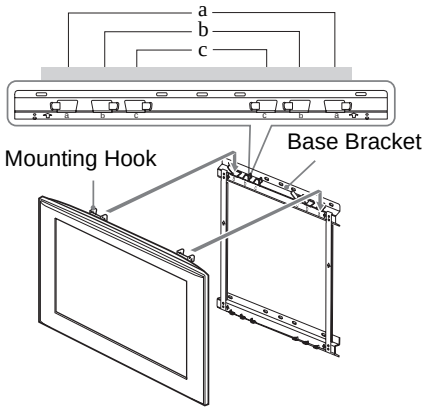
Screw location

When installing the Mounting Hook on the TV.



Hook location

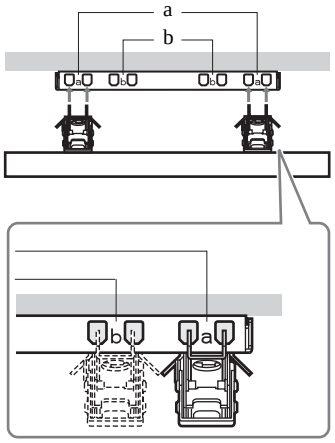
When installing the TV onto the Base Bracket.



SU-WL100

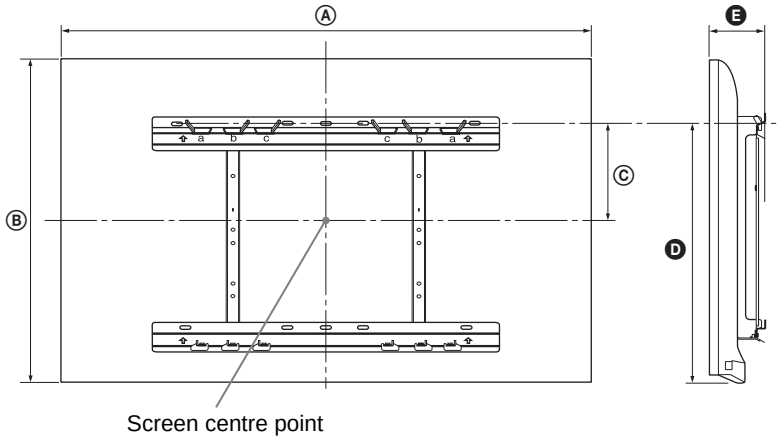
Hook location

When installing the TV onto the Base Bracket.

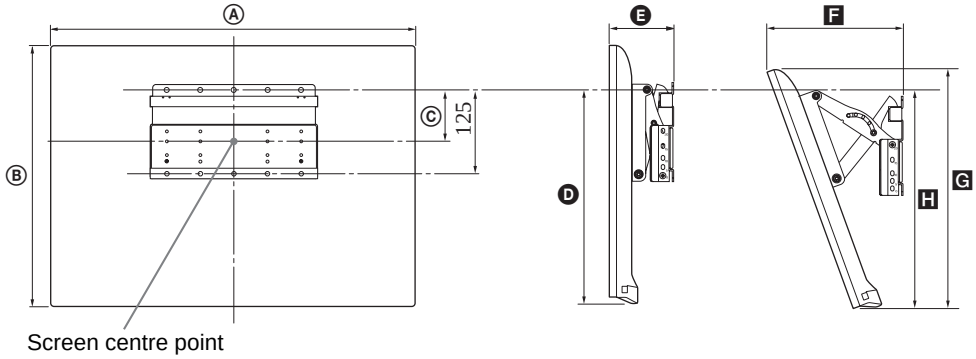


TV installation dimensions table

① SU-WL50B



② SU-WL100



Unit: mm

Model Name KDL-	Display dimensions		Screen centre dimension	Length for each mounting angle				
				Angle (0°)		Angle (20°)		
	A	B	C	D	E	F	G	H
			SU-WL50B	SU-WL50B	SU-WL50B			
55EX72x	1269	769	93	492	90			
46EX72x	1078	660	148	492	92			
46EX52x	1078	660	148	492	92			
46CX52x	1122	682	137	485	135			
40EX72x	943	586	185	492	91			
40EX52x	943	586	185	492	91			
40CX52x	991	606	175	485	132			
32EX72x	755	480	189	444	92			
32EX52x/ 32EX420*1	755	480	189	444	92			
32EX420*2	755	482	189	446	92			
32CX52x	799	502	200	460	131			
			SU-WL100					
26EX42x	631	406	78	295	95	204	374	263
22EX42x	529	347	108	295	93	182	319	276

*1 Except Australia model
*2 Australia model

Figures in the table may differ slightly depending on the installation.

WARNING

The wall that the TV will be installed should be capable of supporting a weight of at least four times that of the TV. Refer to “Specifications” (page 23) for its weight.

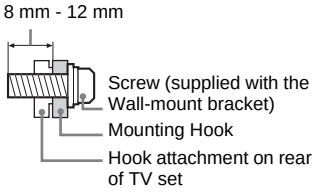
Safety Information

Installation/Set-up

Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

Installation

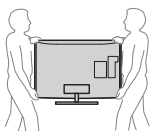
- The TV set should be installed near an easily accessible AC power outlet.
- Place the TV set on a stable, level surface to avoid it from falling down and cause personal injury or damage to the TV.
- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
  - Wall-mount bracket
    SU-WL100 (KDL-26/22EX42x)
    SU-WL50B (except KDL-26/22EX42x)
- Be sure to use the screws supplied with the Wall-mount bracket when attaching the mounting hooks to the TV set. The supplied screws are designed so that they are 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook.
  The diameter and length of the screws differ depending on the Wall-mount bracket model.
  Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.



Transporting

- Before transporting the TV set, disconnect all cables.
- Two or more people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown below. Do not put stress on the LCD panel and the frame around the screen.

KDL-26/22EX42x



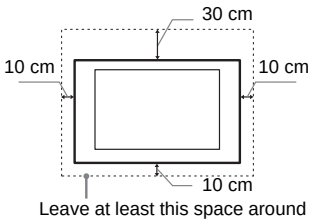
KDL-55/46/40/32EX72x/
KDL-46/40/32EX52x/
KDL-46/40/32CX52x/
KDL-32EX420

- When transporting the TV set, do not subject it to jolts or excessive vibration.
- When transporting the TV set for repairs or when moving, pack it using the original carton and packing material.

Ventilation

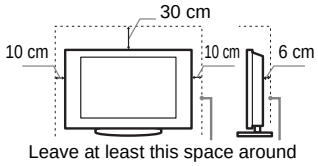
- Never cover the ventilation holes or insert anything in the cabinet.
- Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony wall-mount bracket in order to provide adequate air-circulation.

Installed on the wall



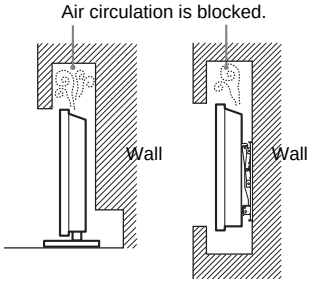
Leave at least this space around the set.

Installed with stand



Leave at least this space around the set.

- To ensure proper ventilation and prevent the collection of dirt or dust:
  - Do not lay the TV set flat, install upside down, backwards, or sideways.
  - Do not place the TV set on a shelf, rug, bed or in a closet.
  - Do not cover the TV set with a cloth, such as curtains, or items such as newspapers, etc.
  - Do not install the TV set as shown below.



AC power cord

Handle the AC power cord and outlet as follows in order to avoid any risk of fire, electrical shock or damage and/or injuries:

- Use only Sony supplied AC power cords, not those of other brands.
- Insert the plug fully into the AC power outlet.
- Operate the TV set on a 110–240 V AC supply only.
- When wiring cables, be sure to unplug the AC power cord for your safety and take care not to catch your feet on the cables.
- Disconnect the AC power cord from the AC power outlet before working on or moving the TV set.
- Keep the AC power cord away from heat sources.
- Unplug the AC power plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate, which could result in a fire.

Notes

- Do not use the supplied AC power cord on any other equipment.
- Do not pinch, bend, or twist the AC power cord excessively. The core conductors may be exposed or broken.
- Do not modify the AC power cord.
- Do not put anything heavy on the AC power cord.
- Do not pull on the AC power cord itself when disconnecting the AC power cord.
- Do not connect too many appliances to the same AC power outlet.
- Do not use a poor fitting AC power outlet.

Prohibited Usage

Do not install/use the TV set in locations, environments or situations such as those listed below, or the TV set may malfunction and cause a fire, electrical shock, damage and/or injuries.

Location:

- Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, unstable locations, near water, rain, moisture or smoke.
- If the TV is placed in the changing room of a public bath or hot spring, the TV may be damaged by airborne sulfur, etc.

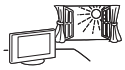
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- Avoid moving the TV from a cold area to a warm area. Sudden room temperature changes may cause moisture condensation. This may cause the TV to show poor picture and/or poor colour. Should this occur, allow moisture to evaporate completely before powering the TV on.

(Continued)

Environment:

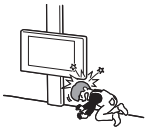
- Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration, near flammable objects (candles, etc). The TV set shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.
- Do not place the TV in a humid or dusty space, or in a room with oily smoke or steam (near cooking tables or humidifiers). Fire, electric shock, or warping may result.

- Do not install the TV in places subject to extreme temperature, such as in direct sunlight, near a radiator or a heating vent. The TV may overheat in such conditions which can cause deformation of the enclosure and/or TV malfunction.



Situation:

- Do not use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from AC power outlet and antenna during lightning storms.
- Do not install the TV so that it sticks out into an open space. Injury or damage from a person or object bumping into the TV may result.



Broken pieces:

- Do not throw anything at the TV set. The screen glass may break by the impact and cause serious injury.
- If the surface of the TV set cracks, do not touch it until you have unplugged the AC power cord. Otherwise electric shock may result.

When not in use

- If you will not be using the TV set for several days, the TV set should be disconnected from the AC power for environmental and safety reasons.
- As the TV set is not disconnected from the AC power when the TV set is just turned off, pull the plug from the AC power outlet to disconnect the TV set completely.
- However, some TV sets may have features that require the TV set to be left in standby to work correctly.

For children

- Do not allow children to climb on the TV set.
- Keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

If the following problems occur...

Turn off the TV set and unplug the AC power cord immediately if any of the following problems occur.

Ask your dealer or Sony service centre to have it checked by qualified service personnel.

When:

– AC power cord is damaged.
– Poor fitting of AC power outlet.
– TV set is damaged by being dropped, hit or having something thrown at it.
– Any liquid or solid object falls through openings in the cabinet.

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Instructions about “Installing Wall Mount Bracket” are included within this TV’s instructions manual.

Customer Support:
http://www.sony-asia.com/support

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http://www.sony.net/

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